



STIC Search Report

EIC 1700

STIC Database Tracking Number: 133795

To: Hoa V Le
Location: Rem 9D61
Art Unit : 1752
September 29, 2004
Case Serial Number: 10/661119

From: John Calve
Location: CP 3/4; 3D62
Phone: 571-272-3519

John.Calve@uspto.gov

Search Notes

Hoa,

I didn't find the species chosen by the applicant. I have marked the 2 closest records to the selected species (GREEN tags). If you have any questions, please call me.

John

=> D HIS

(FILE 'HOME' ENTERED AT 08:37:37 ON 29 SEP 2004)

FILE 'HCA' ENTERED AT 08:37:42 ON 29 SEP 2004

L1 1326 S CRAWLEY ?/AU
L2 79 S ROMANET ?/AU
L3 35729 S FISCHER ?/AU
L4 88 S L3 AND L1
L5 0 S L2 AND L4
L6 18 S (L2 OR L4) AND PHOTOGRAPH?
L7 16 S L6 AND ?AZOLE?

FILE 'LREGISTRY' ENTERED AT 08:40:02 ON 29 SEP 2004

L8 STR

FILE 'REGISTRY' ENTERED AT 08:43:34 ON 29 SEP 2004

L9 50 S L8

FILE 'LREGISTRY' ENTERED AT 08:44:29 ON 29 SEP 2004

FILE 'REGISTRY' ENTERED AT 08:46:18 ON 29 SEP 2004

L10 1294 S L8 FULL
SAVE L10 VANLE119/A

FILE 'LREGISTRY' ENTERED AT 08:46:51 ON 29 SEP 2004

L11 STR L8

FILE 'REGISTRY' ENTERED AT 08:59:56 ON 29 SEP 2004

L12 3 S L11 SSS-SAM - SUB=L10

L13 39 S L11 SSS FULL SUB=L10

SAVE L13 VANLE119A/A

FILE 'HCA' ENTERED AT 09:01:56 ON 29 SEP 2004

L14 38 S L13
L15 38 S L14 AND 1907-2003/PY,PRY
L16 0 S L7 AND L15
L17 326915 S ?AZOLE?
L18 318779 S PHOTOGRAPH? OR PHOTOCHEM? OR PHOTO(W)CHEM?
L19 32 S L15 AND L17
L20 31 S L19 AND L18
L21 31 S L20 AND COUPL?

FILE 'LCA' ENTERED AT 09:05:04 ON 29 SEP 2004

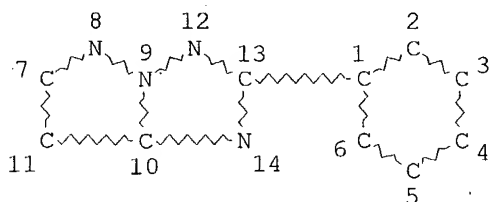
FILE 'HCA' ENTERED AT 09:06:44 ON 29 SEP 2004

L22 652 S L10
L23 38 S L15 AND L22
L24 38 S L23 OR L19 OR L20 OR L21

FILE 'REGISTRY' ENTERED AT 09:08:28 ON 29 SEP 2004

=> D QUE STAT L24

L8 STR

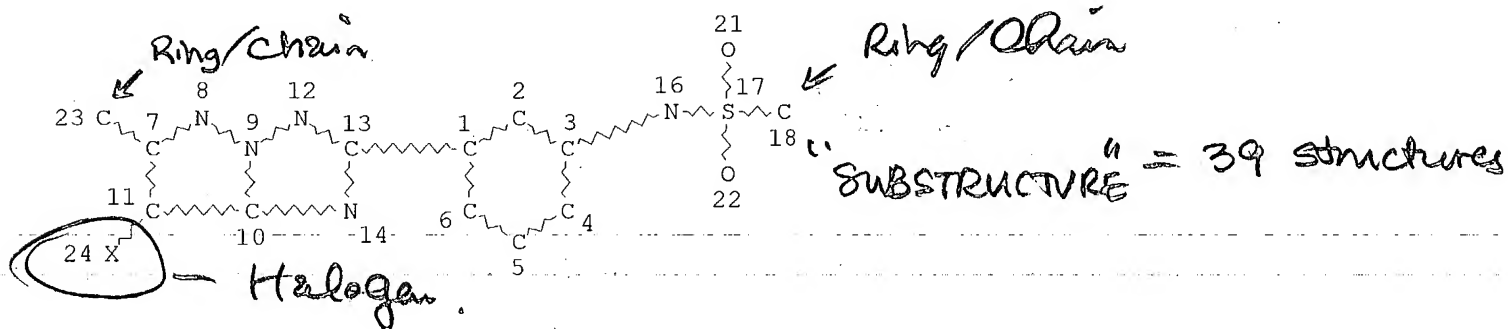


PARENT = 1294 structures

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
 L10 1294 SEA FILE=REGISTRY SSS FUL L8
 L11 STR



NODE ATTRIBUTES:
 NSPEC IS RC AT 18
 NSPEC IS RC AT 23
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
 L13 39 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
 L14 38 SEA FILE=HCA ABB=ON PLU=ON L13
 L15 38 SEA FILE=HCA ABB=ON PLU=ON L14 AND 1907-2003/PY, PRY
 L17 326915 SEA FILE=HCA ABB=ON PLU=ON ?AZOLE?
 L18 318779 SEA FILE=HCA ABB=ON PLU=ON PHOTOGRAPH? OR PHOTOCHEM? OR
 PHOTO (W) CHEM?
 L19 32 SEA FILE=HCA ABB=ON PLU=ON L15 AND L17
 L20 31 SEA FILE=HCA ABB=ON PLU=ON L19 AND L18
 L21 31 SEA FILE=HCA ABB=ON PLU=ON L20 AND COUPL?
 L22 652 SEA FILE=HCA ABB=ON PLU=ON L10
 L23 38 SEA FILE=HCA ABB=ON PLU=ON L15 AND L22
 L24 38 SEA FILE=HCA ABB=ON PLU=ON L23 OR L19 OR L20 OR L21

=> FILE HCA

FILE 'HCA' ENTERED AT 09:09:18 ON 29 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 14

FILE LAST UPDATED: 23 Sep 2004 (20040923/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D L24 1-38 CBIB ABS HITIND HITSTR

L24 ANSWER 4 OF 38 HCA COPYRIGHT 2004 ACS on STN

138:262623 Silver halide color **photographic** material containing

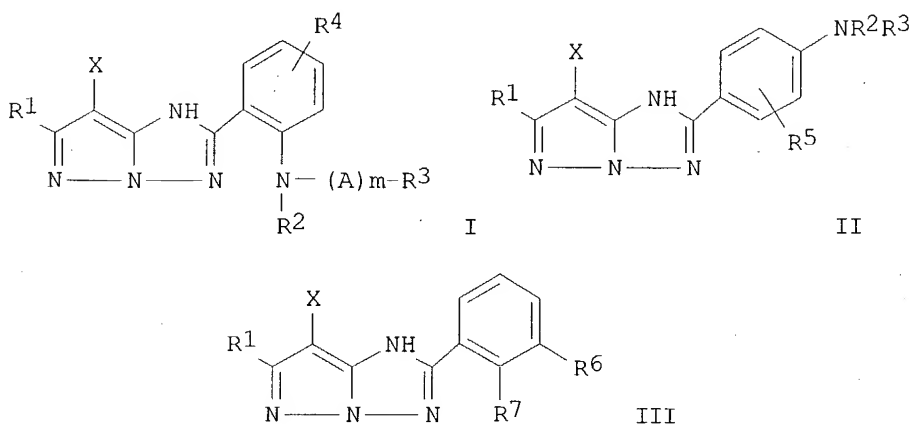
pyrazoloazole magenta **coupler**. Sugita, Shuichi; Sugino,

Motoaki (Konica Co., Japan). Jpn. Kokai Tokkyo Koho-JP-2003/091058 A2

20030328, 24 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP

2001-284834 20010919.

GI



AB The material has blue- green-, and red-sensitive emulsion layers on a support, in which ≥ 1 green-sensitive layer contains ≥ 1 **pyrazoloazole** magenta **coupler** I (R1 = substituent; A = carbonyl, sulfonyl; n = 0, 1; R2, R3 = alkyl, aryl; R2 and R3 may form a ring; R4 = H, substituent; X = halo), II (R1 = substituent; R2, R3 =

alkyl, aryl; R2 and R3 may form a ring; R5 = H, substituent; X = halo), or III (R1 = substituent; R6 = substituent; R7 = electron donative group; X = halo). It shows improved color reproduction quality and color development, providing a magenta image with improved lightfastness.

IC ICM G03C007-38

ICS G03C007-392

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST pyrazoloazole magenta coupler photog film

IT Photographic films

(color; silver halide color photog. material containing
pyrazoloazole magenta coupler and image stabilizer)

IT Magenta couplers

(silver halide color photog. material containing
pyrazoloazole magenta coupler)

IT 85-60-9 82394-21-6

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(image stabilizer; silver halide color photog. material
containing pyrazoloazole magenta coupler and image
stabilizer)

IT 26577-59-3P 82560-12-1P 349092-99-5P 440348-93-6P 502693-92-7P

502693-93-8P 502693-95-0P 502693-96-1P 502693-98-3P

502693-99-4P 502694-02-2P 502694-03-3P 502694-05-5P

502694-06-6P 502694-07-7P 502694-10-2P 502694-12-4P

502694-13-5P 502694-14-6P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)

(preparation of pyrazoloazole photog. coupler)

IT 107-10-8, Propylamine, reactions 302-01-2, Hydrazine, reactions

1975-50-4 4405-28-1 4877-14-9, Tetradecyl isocyanate 59997-51-2,

Pivaloylacetonitrile

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrazoloazole photog. coupler)

IT 502693-50-7P 502693-67-6P 502693-80-3P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silver halide color photog. material containing
pyrazoloazole magenta coupler)

IT 502693-55-2 502693-57-4 502693-60-9

502693-61-0 502693-65-4 502693-70-1

502693-72-3 502693-74-5 502693-76-7

502693-78-9 502693-82-5 502693-84-7

502693-85-8 502693-88-1

RL: TEM (Technical or engineered material use); USES (Uses)

(silver halide color photog. material containing
pyrazoloazole magenta coupler)

IT 502693-98-3P 502693-99-4P 502694-06-6P

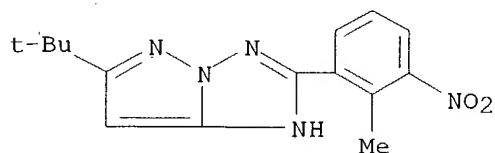
502694-07-7P 502694-13-5P 502694-14-6P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)

(preparation of pyrazoloazole photog. coupler)

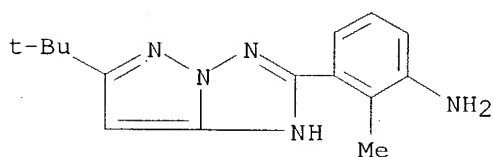
RN 502693-98-3 HCA

CN Benzenamine, 2-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-N,N-dimethyl-4-nitro- (9CI) (CA INDEX NAME)



RN 502694-14-6 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)



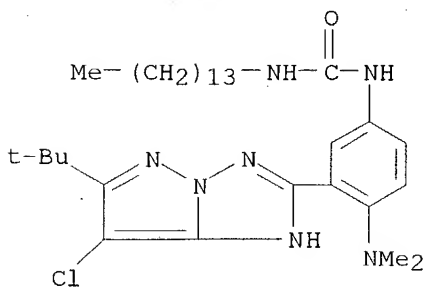
IT 502693-50-7P 502693-67-6P 502693-80-3P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silver halide color photog. material containing
pyrazoloazole magenta coupler)

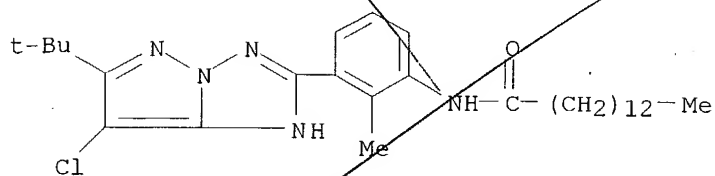
RN 502693-50-7 HCA

CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-4-(dimethylamino)phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



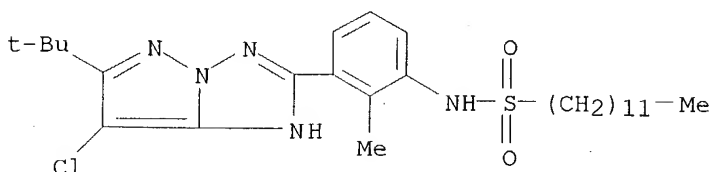
RN 502693-67-6 HCA

CN Urea, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(4-morpholinyl)phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



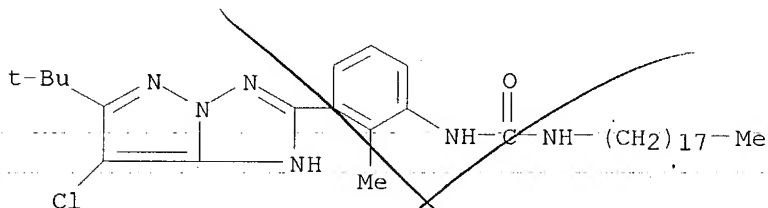
RN 502693-84-7 HCA

CN 1-Dodecanesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]- (9CI) (CA INDEX NAME)



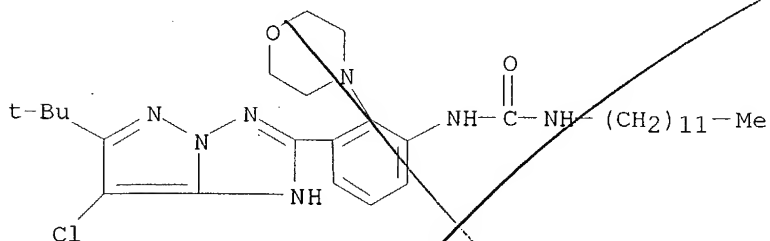
RN 502693-85-8 HCA

CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-N'-octadecyl- (9CI) (CA INDEX NAME)



RN 502693-88-1 HCA

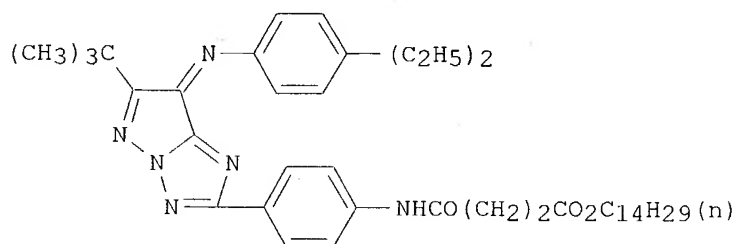
CN Urea, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(4-morpholinyl)phenyl]-N'-dodecyl- (9CI) (CA INDEX NAME)



L24 ANSWER 2 OF 38 HCA COPYRIGHT 2004 ACS on STN

135:212295 Colorant particle dispersions for ink-jet inks and method of recording. Kimura, Keizo; Ishizuka, Takahiro; Yamada, Masato (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001240763 A2 20010904, 64 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-78491 20000321. PRIORITY: JP 1999-365187 19991222.

GI



AB The dispersions contain particles which comprise oil-soluble dyes of specific **phenyliminopyrozolotriazole** like compds. and oil-soluble polymers in an aqueous medium and have absorption maximum (λ_{\max}) at 510-560 nm, absorbancy at $\lambda_{\max}+75$ nm of <0.2 and absorbancy at $\lambda_{\max}-75$ nm of <0.4 when assuming the absorbancy for λ_{\max} as 1. Recording images using the inks have good light and water resistance. Thus, mixing i-PROH 10 with an acrylic acid-Bu methacrylate-1H,1H,2H,2H-perfluorodecyl acrylate copolymer 9.1 and I (preparation given) 0.8 with a 2 mol/L aqueous solution

of NaOH 2.3 parts, heating to 80°, adding 50 parts water and condensing to 20% solids content gave a colorant dispersion for use in an ink containing other ingredients.

IC ICM C09B067-46

ICS C09B067-46; B41J002-01; B41M005-00; C09B055-00; C09B067-02; C09D011-00

CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

ST ink jet ink recording **phenyliminopyrozolotriazole** deriv colorant dye

IT 358638-85-4P 358638-86-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; colorant particle dispersions for ink-jet inks and method of recording)

IT 292833-36-4P 358342-81-1P 358342-86-6P

358342-89-9P 358342-90-2P 358342-91-3P

358342-92-4P 358638-59-2P 358638-60-5P 358638-61-6P

358638-62-7P 358638-63-8P 358638-64-9P

358638-65-0P 358638-66-1P 358638-67-2P

358638-68-3P 358638-69-4P 358638-70-7P 358638-71-8P

358638-72-9P 358638-73-0P 358638-74-1P

358638-75-2P 358638-76-3P 358638-77-4P 358638-78-5P

358638-79-6P 358638-80-9P 358638-81-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(oil-soluble dyes; colorant particle dispersions for ink-jet inks and method of recording)

IT 128-08-5 25646-71-3 25646-77-9 155218-29-4 244763-66-4

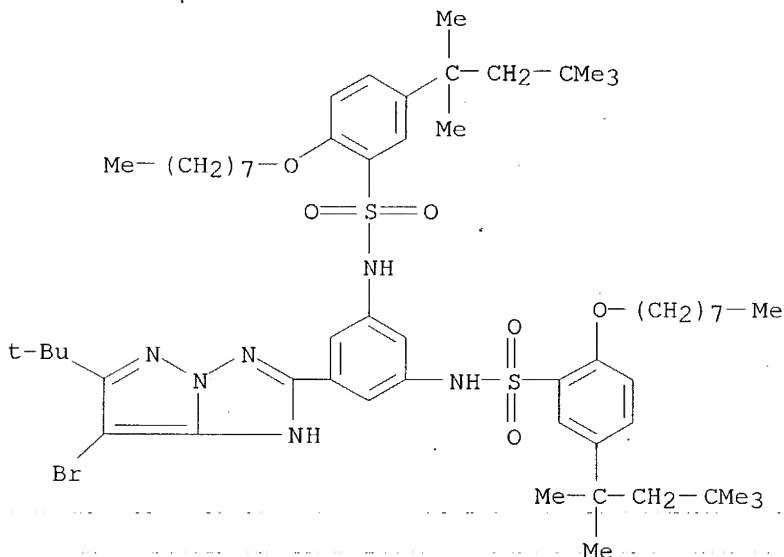
358342-79-7 358342-80-0 358342-87-7 358638-82-1

358638-83-2 358638-84-3

RL: RCT (Reactant); RACT (Reactant or reagent)

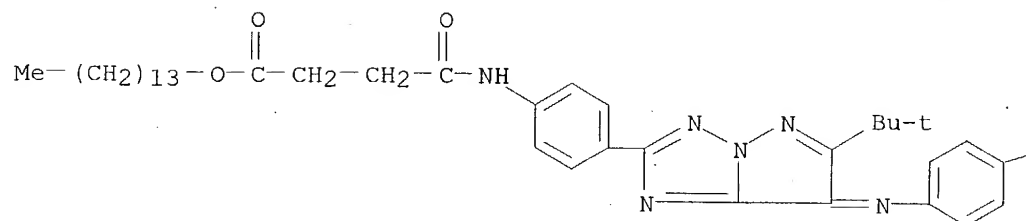
(reactant; colorant particle dispersions for ink-jet inks and method of

recording)
 IT **358638-85-4P**
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate; colorant particle dispersions for ink-jet inks and
 method of recording)
 RN 358638-85-4 HCA
 CN Benzenesulfonamide, N,N'-[5-[7-bromo-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
 b][1,2,4]triazol-2-yl]-1,3-phenylene]bis[2-(octyloxy)-5-(1,1,3,3-
 tetramethylbutyl)- (9CI) (CA INDEX NAME)

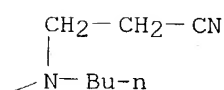


IT 292833-36-4P 358342-81-1P 358342-86-6P
 358342-90-2P 358342-91-3P 358342-92-4P
 358638-62-7P 358638-64-9P 358638-65-0P
 358638-66-1P 358638-67-2P 358638-71-8P
 358638-72-9P 358638-73-0P 358638-74-1P
 358638-76-3P 358638-78-5P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
 engineered material use); PREP (Preparation); USES (Uses)
 (oil-soluble dyes; colorant particle dispersions for ink-jet inks and
 method of recording)
 RN 292833-36-4 HCA
 CN Butanoic acid, 4-[[4-[7-[[4-[butyl(2-cyanoethyl)amino]phenyl]imino]-6-(1,1-
 dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-,
 tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



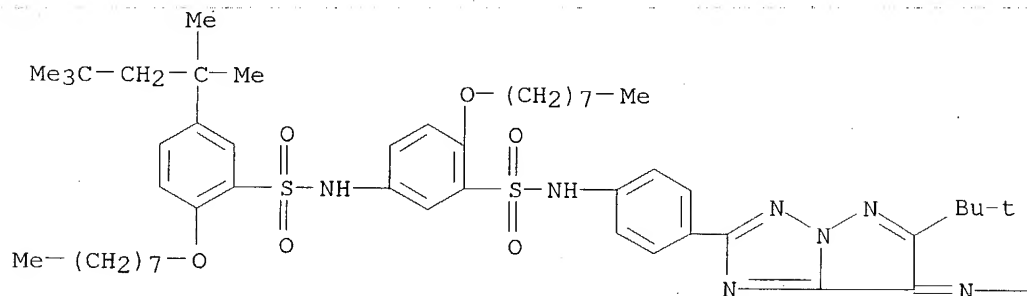
PAGE 1-B

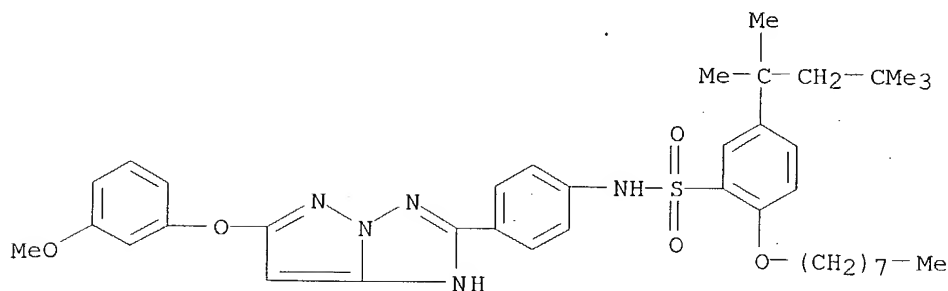


RN 358342-81-1 HCA

CN Benzenesulfonamide, N-[3-[[[4-[7-[[4-[bis(4-hydroxybutyl)amino]-2-(trifluoromethyl)phenyl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

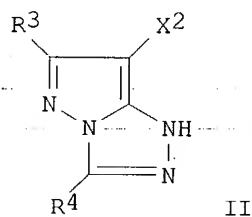
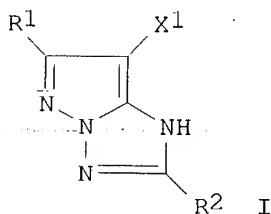
PAGE 1-A





L24 ANSWER 3 OF 38 HCA COPYRIGHT 2004 ACS on STN
 135:12037 Color **photography** and its materials containing
pyrazoloazole-type magenta **couplers** and showing
 excellent granularity. Fukuzawa, Hiroshi; Mikoshiba, Takashi; Shimura,
 Yoshio (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 2001147508 A2 **20010529**, 53 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1999-328261 19991118.

GI



AB The materials contain magenta **couplers** of (1-9):(1-9) (molar
 ratio) mixts. of I and II (or III) mixts. [R1-4 = H, substituents; R'3 =
 C5-20 secondary alkyl, C4-20 tertiary alkyl; X1, X2 = H, leaving groups
 upon **coupling** with oxidized developers]. The materials show
 good storage stability and provide images with stable quality even under
 development conditions with pH drift.

IC ICM G03C007-38

ICS G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 Section cross-reference(s): 41

ST **pyrazolotriazole** magenta **coupler photog**
 granularity; pH drift **photog** quality magenta **coupler**

IT **Magenta couplers**
 (color **photog.** materials containing **pyrazoloazole**-type
 magenta **couplers** and showing excellent granularity)

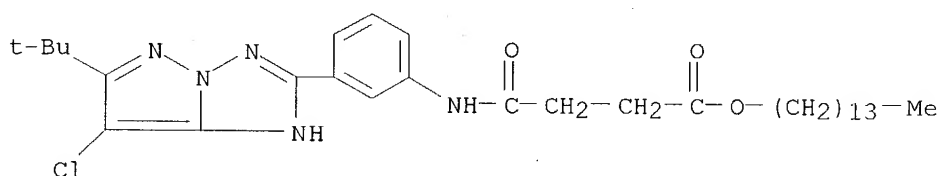
IT **Photography**
 (color; color **photog.** materials containing **pyrazoloazole**-
 type magenta **couplers** and showing excellent granularity)

IT 110884-43-0 131169-88-5 **342035-89-6** 342035-90-9
342035-91-0 342035-92-1 342035-93-2 342035-94-3

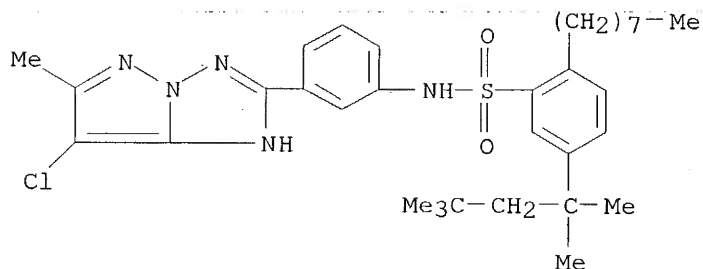
(magenta couplers; color photog. materials containing
pyrazoloazole-type magenta couplers and showing
excellent granularity)

(magenta couplers; color photog. materials containing pyrazoloazole-type magenta couplers and showing excellent granularity)

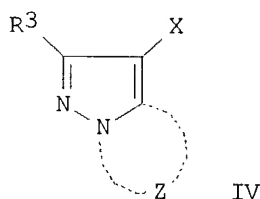
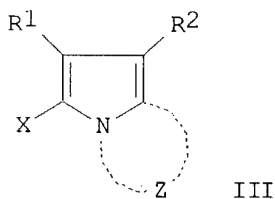
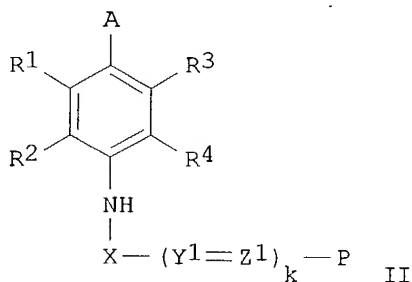
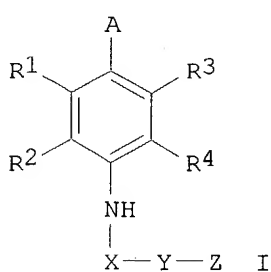
CN Butanoic acid, 4-[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-octyl-5-(1,1,3,3-tetramethylbutyl)- (9CI)
(CA INDEX NAME)



(Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-209845 19970717.



AB In the material having a photosensitive layer containing photosensitive Ag halide particles, developers, **couplers**, and binders, ≥ 1 of the developer is I or II ($R1-5 = H$, substituent; $A = OH$, substituted amino; $X = CO, SO, SO_2, PO$; $Y =$ divalent linkage; $Z =$ nucleophilic group capable of reacting with X when oxidized; $Y1, Z1 = N, CR_5$; $P =$ proton or cation releasing group; $k = 0$ or integer) and ≥ 1 of the **coupler** is III or IV ($Z =$ atoms to form **azole** ring which may be substituted or condensed; $R1, R2 =$ electron-attracting group with Hammett's $\sigma_p \geq 0.30$; $R3 = H$, substituent; $X =$ leaving group to be released by the **coupling** reaction with the oxidized developing agent). The material shows good developability and improved image sharpness.

IC ICM G03C008-40

ICS G03C008-40; G03C001-42; G03C007-392; G03C007-413

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST heat developable **photog** developer aminophenol deriv;
azole deriv **coupler** heat developable **photog**

IT **Photographic couplers**

(heat-developable **photog.** film containing aminophenol derivative developer and **azole** compound **coupler**)

IT **Photographic developers**

(heat-developable **photog.** film containing aniline derivative developer and **azole** compound **coupler**)

IT **Photographic films**

(heat-developable; heat-developable **photog.** film containing aniline derivative developer and **azole** compound **coupler**)

IT 209794-95-6P 213608-77-6P 220695-05-6P 220695-06-7P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(heat-developable **photog.** film containing aminophenol derivative developer and **azole** compound **coupler**)

IT 126512-93-4 130287-07-9 131169-88-5 138272-35-2

140859-64-9 142859-67-4 143151-76-2 151019-66-8

152828-03-0 154042-70-3 196105-60-9 210368-73-3

210368-74-4 213608-82-3 220694-94-0 220694-95-1 220694-96-2
 220694-97-3 220694-98-4 220694-99-5 220695-00-1 220695-01-2
 220695-02-3 220695-03-4 220695-04-5 220695-07-8 220695-08-9
 220695-09-0 220695-10-3 220695-11-4 220695-12-5 220695-13-6
 220695-14-7 220695-15-8 220695-16-9 220929-40-8

RL: TEM (Technical or engineered material use); USES (Uses)
 (heat-developable **photog.** film containing aminophenol derivative
 developer and **azole** compound **coupler**)

IT 152243-21-5P 189188-01-0P 189188-02-1P 209794-94-5P 209794-96-7P
 209794-97-8P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)

(preparation of aminophenol derivative **photog.** developer)
 IT 81-08-3 111-92-2, Dibutylamine 112-96-9, Octadecyl isocyanate
 121-57-3 501-24-6 1694-92-4, 2-Nitrophenylsulfonyl chloride
 5930-28-9 7617-74-5 41755-73-1 74918-57-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aminophenol derivative **photog.** developer)

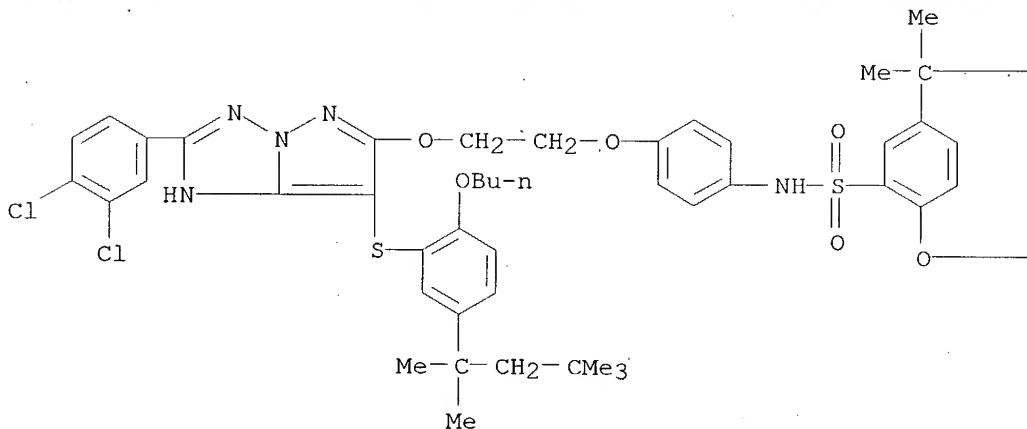
IT 126512-93-4 143151-76-2 152828-03-0

RL: TEM (Technical or engineered material use); USES (Uses)
 (heat-developable **photog.** film containing aminophenol derivative
 developer and **azole** compound **coupler**)

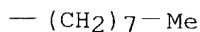
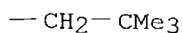
RN 126512-93-4 HCA

CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-
 tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-
 b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-
 tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

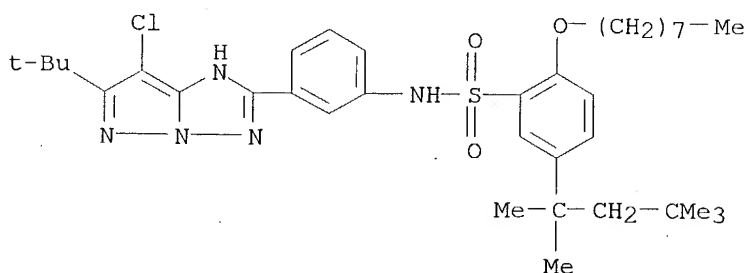


PAGE 1-B



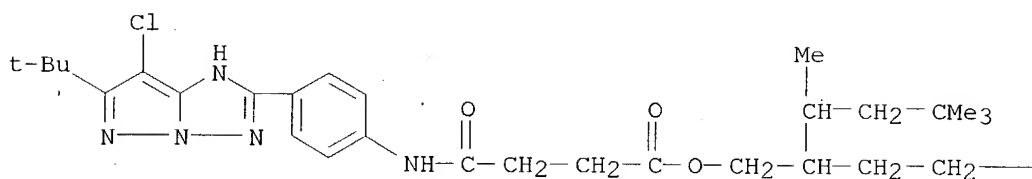
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



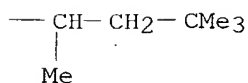
RN 152828-03-0 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)octyl ester (9CI) (CA INDEX NAME)



PAGE 1-A

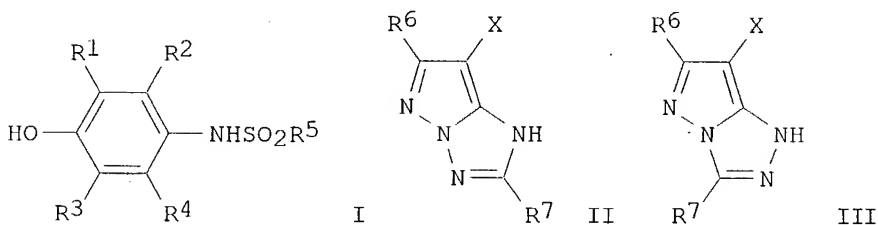
PAGE 1-B



L24 ANSWER 5 OF 38 HCA COPYRIGHT 2004 ACS on STN

129:182133 Thermal development type silver halide color **photographic** material containing specific types of **couplers** and developing agents to improve image/storage stability. Naruse, Hideaki (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10213889 A2 19980811 Heisei, 88 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-31110 19970130.

GI



AB Claimed thermal development type color **photog.** material contains (1) a developing agent represented by the formula I [R1-4 = H, halo, alkyl, aryl, alkylcarboxamido, arylcarboxamido, alkylsulfonamido, arylsulfonamido, alkoxy, aryloxy, alkylthio, arylthio, alkylcarbamoyle, arylcarbamoyle, carbamoyle, (alkyl)sulfamoyle, cyano, alkylsulfonyl, arylsulfonyl, alkoxycarbonyl, aryloxy carbonyl, alkylcarbonyl, arylcarbonyl, acyloxy; R5 = alkyl, aryl, heterocycle], (2) a **coupler** selected from-II and III (R6 = alkyl; R7 = alkyl, aryl; X = leaving group to be released by the **coupling** reaction), and (3) a **coupler** solvent selected from aliphatic phosphates, organic phthalates, polyol esters, carbonamides, and alkyl (poly)carboxylates,. In spite of the incorporation of developing chems., it has good storage stability and provides dye images with good dye fastness. In an example, 2,6-di-chloro-4-(hexadecylfulonamido)phenol (developing agent) and **coupler** II (R6 = tert-Bu; R7 = p-(tetradecyloxycarbonylpropionamid o)phenyl; X = Cl) are incorporated in the thermal developing multilayer color film.

IC ICM G03C008-40

ICS G03C008-40; G03C001-42; G03C007-38; G03C007-388; G03C007-392; G03C007-407

CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST sulfonaminophenol developing agent **photog** material; heat developable **photog coupler** developer; thermal development sulfonaminophenol developer **photog**; incorporated developer sulfonamino phenol **photog** film; **pyrazolotriazole** magenta **coupler** heat developable **photog**; chromogenic thermal development **photog** processing

IT **Photographic** films

(color, heat-developable; thermal development type silver halide color **photog.** material containing specific types of **couplers** and developing agents to improve image/storage stability)

IT 152827-88-8 152827-98-0 174614-86-9

188673-30-5 188673-32-7

RL: DEV (Device component use); USES (Uses)

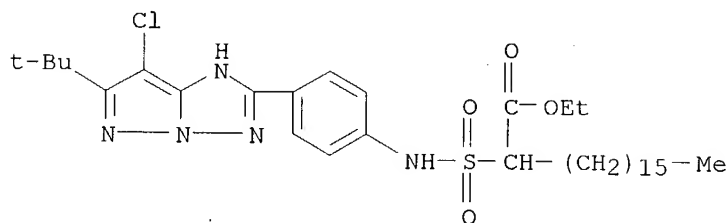
(coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

IT 187977-00-0 209794-95-6 210368-70-0
 RL: DEV (Device component use); USES (Uses)
 (developer; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

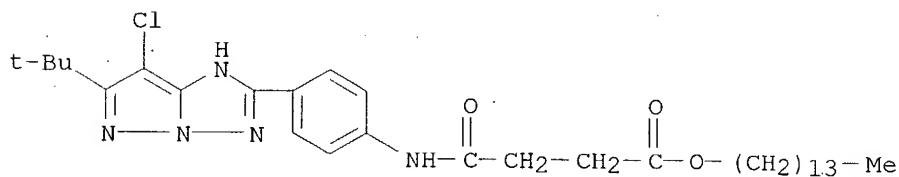
IT 77-90-7 78-42-2, Tris(2-ethylhexyl)phosphate 84-61-7 91-49-6
 93-99-2, Phenyl benzoate 103-23-1 115-96-8, Tris(2-chloroethyl)phosphate 122-62-3 126-73-8, Tributylphosphate, uses
 141-38-8 1118-92-9 2451-86-7 2528-39-4, Trihexylphosphate
 2528-40-7, Tricyclohexylphosphate 3352-87-2 4196-87-6 5338-65-8
 7360-38-5 13330-42-2 26086-33-9 28510-23-8 29376-81-6 53148-32-6
 92756-89-3 102874-65-7 109870-88-4 115241-77-5 135728-97-1
 211490-35-6, 14,15-Tritriacontanedione 211621-43-1 211621-44-2
 RL: DEV (Device component use); USES (Uses)
 (high-b.p. solvent for coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

IT 152827-88-8 152827-98-0 174614-86-9
 188673-30-5 188673-32-7
 RL: DEV (Device component use); USES (Uses)
 (coupler; thermal development type silver halide color photog. material containing specific types of couplers and developing agents to improve image/storage stability)

RN 152827-88-8 HCA
 CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

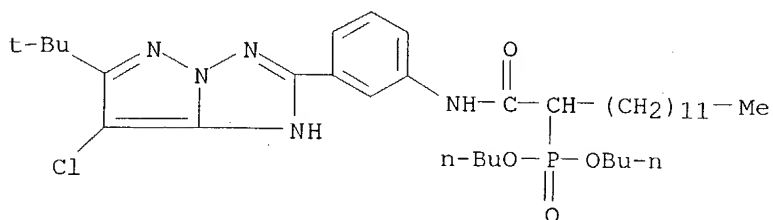


RN 152827-98-0 HCA
 CN Butanoic acid, 4-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



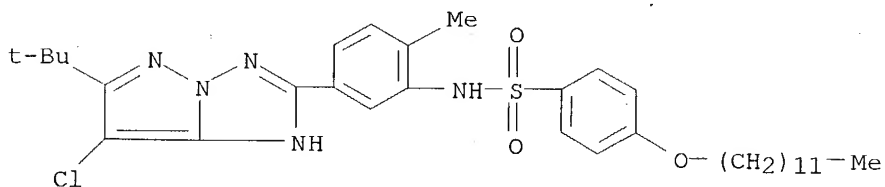
RN 174614-86-9 HCA
 CN Phosphonic acid, [1-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]tridecyl]-, dibutyl ester

(9CI) (CA INDEX NAME)



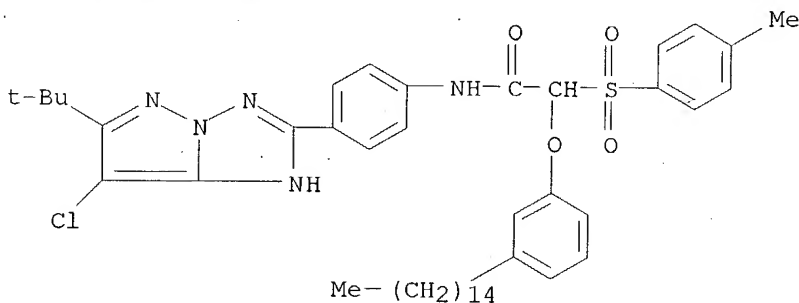
RN 188673-30-5 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)



RN 188673-32-7 HCA

CN Acetamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(4-methylphenyl)sulfonyl]-2-(3-pentadecylphenoxy)- (9CI) (CA INDEX NAME)



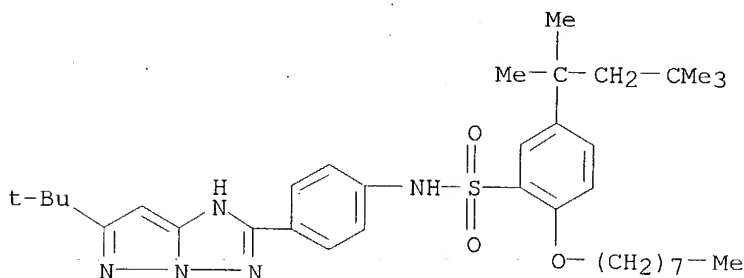
L24 ANSWER 6 OF 38 HCA COPYRIGHT 2004 ACS on STN

128:121632 Heat-developable color photosensitive material. Taguchi, Toshiki; Takeuchi, Kiyoshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09325464 A2 19971216 Heisei, 79 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-163670 19960605.

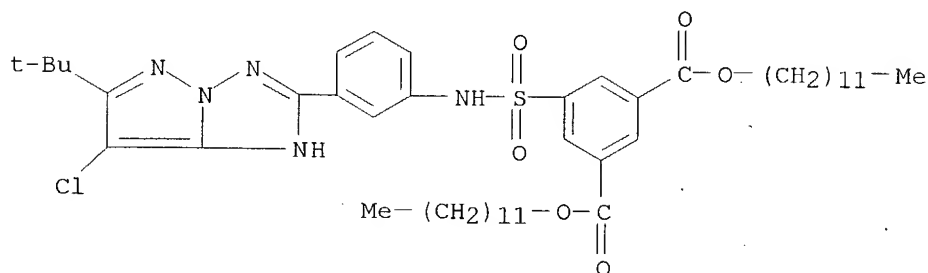
AB The heat-developable color photosensitive material comprises ≥ 2 photosensitive emulsion layers containing a photosensitive silver halide, a binder, a coupler, and developers on a support. The each emulsion layer has spectral sensitivity toward a different light wave region and a practically non-photosensitive middle layer is interposed between the emulsion layers, wherein at least one of the middle layers contains a coupler which couples with the developer but which does not form a color image. The material provides improved image discrimination and improved

color reproducibility without effecting on the other photog. characteristics.

- IC ICM G03C008-40
ICS G03C008-40; G03C008-42
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 99661-33-3 **152828-26-7** **201541-61-9** 201541-62-0
201541-63-1 201541-64-2
RL: TEM (Technical or engineered material use); USES (Uses)
(coupler in middle layer for heat-developable color photosensitive material)
IT **152828-26-7** **201541-61-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(coupler in middle layer for heat-developable color photosensitive material)
RN 152828-26-7 HCA
CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

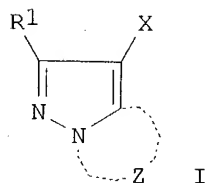


- RN 201541-61-9 HCA
CN 1,3-Benzenedicarboxylic acid, 5-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, didodecyl ester (9CI) (CA INDEX NAME)



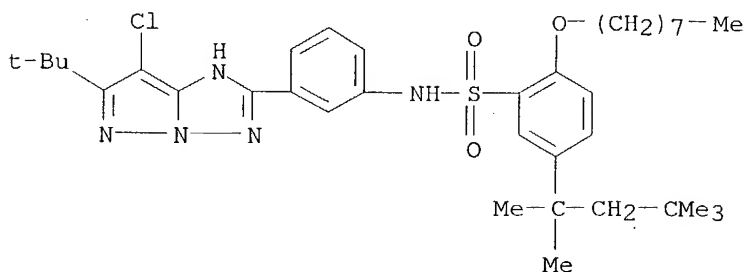
- L24 ANSWER 7 OF 38 HCA COPYRIGHT 2004 ACS on STN
127:301208 Color image-forming method for duplicating original. Nagaoka, Katsuro (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09222710 A2 **19970826** Heisei, 68 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1996-50731 19960215.

GI



- AB Claimed method for obtaining a duplication on a color **photog.** material having yellow-, cyan-, and magenta-dye developing layers on a support is characterized by that the original contains the magenta dye developed from a **pyrazoloazole coupler I** (R1 = H, substituent; Z = 5-membered **azole** containing 3 N atoms; X = H, or leaving group to be released by the **coupling** reaction with the oxidized developing agent) and (2) that the duplicating material contains the same **coupler** as that producing the dye in the original. Also claimed is that the duplicating material contains a **pyrazoloazole** or a **pyrroazole** cyan **coupler** which produces the dye incorporated in the original. The material is suitably a multilayer color reversal material and has an excellent color and tone reproduction quality, particularly in highlight gradation and color purity. Suitable magenta **couplers** are compound I (R1 = tert-butyl; X = Cl; Z = 3-[3-(2-n-octyloxy-5-tert-octylphenylsulfoamino)phenyl]-5,1-condensed-1,2,4-**triazole**), compound I (R1 = Me; X = Cl; Z = 3-[1-(2,5-di-tert-amylphenoxy)hexylcarbonylaminopropyl]-5,1-condensed-1,2,4-**triazole**), etc., and suitable cyan **couplers** are 3-methylsulfo-pyrazolo[5,1-d]-3-[3-[(3-tert-octylphenoxy)stearyl-amido]phenyl]-1,2,4-**triazole**.
- IC ICM G03C007-38
ICS G03C007-00; G03C007-18; G03C007-20
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **pyrazoloazole** magenta **coupler photog** material; cyan **coupler pyrazolotriazole photog** material; **pyrroazole** cyan **coupler photog** material; color reprodn **coupler photog** material
- IT Cyan **couplers**
Magenta **couplers**
Photography
(color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 123828-34-2 196699-37-3
RL: DEV (Device component use); USES (Uses)
(cyan **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 131169-88-5 143151-76-2
RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- IT 143151-76-2
RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; color image-forming method for duplicating original using the same **pyrazolotriazole coupler**)
- RN 143151-76-2 HCA

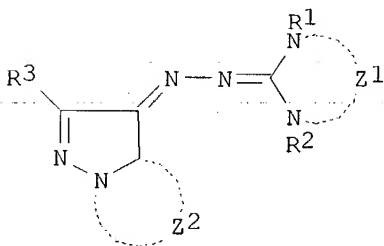
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 8 OF 38 HCA COPYRIGHT 2004 ACS on STN

127:163108 Non-dissociation-type **pyrazoloazole** dyes. Noro, Masaki (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09176502 A2 19970708 Heisei, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-350736 19951226.

GI



I

AB Title dyes useful in **photog. couplers** are represented by general structure I (R1, R2 = alkyl, aryl, heterocycle; R3 = H, substituents; Z1 = 5- or 6-membered ring-forming atoms; Z2 = atoms for forming **azole** ring containing 2-4 nitrogen).

IC ICM C09B057-00

CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 74

ST **pyrazoloazole dye photog coupler**

IT Dyes
(non-dissociation-type **pyrazoloazole** dyes)

IT **Photographic couplers**
(non-dissociation-type **pyrazoloazole** dyes for **photog. coupler**)

IT 193692-56-7P 193692-58-9P 193692-60-3P
193692-62-5P 193692-64-7P 193692-66-9P 193692-68-1P
193692-70-5P 193692-72-7P 193692-74-9P **193692-76-1P**
193692-78-3P 193692-80-7P 193692-82-9P 193692-84-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material)

use); PREP (Preparation); USES (Uses)

(non-dissociation-type **pyrazoloazole** dyes)

IT 13545-87-4 143151-76-2 152828-26-7 193692-47-6
193692-50-1 193692-54-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of non-dissociation-type **pyrazoloazole** dyes)

IT 193692-56-7P 193692-58-9P 193692-60-3P

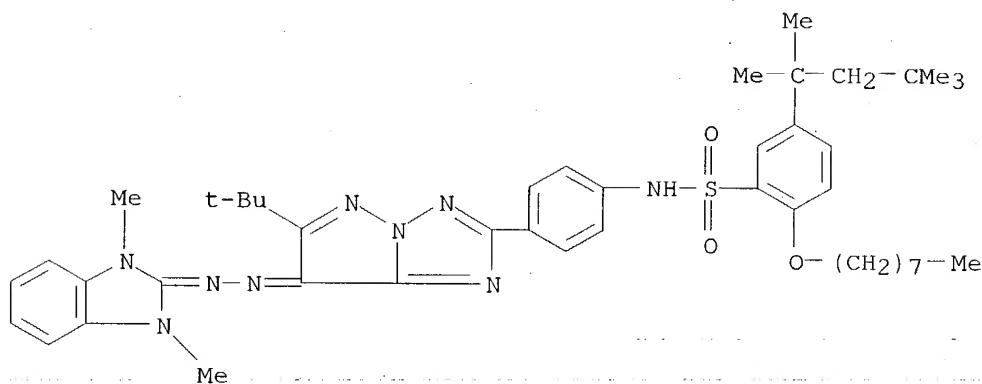
193692-62-5P 193692-76-1P 193692-78-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(non-dissociation-type **pyrazoloazole** dyes)

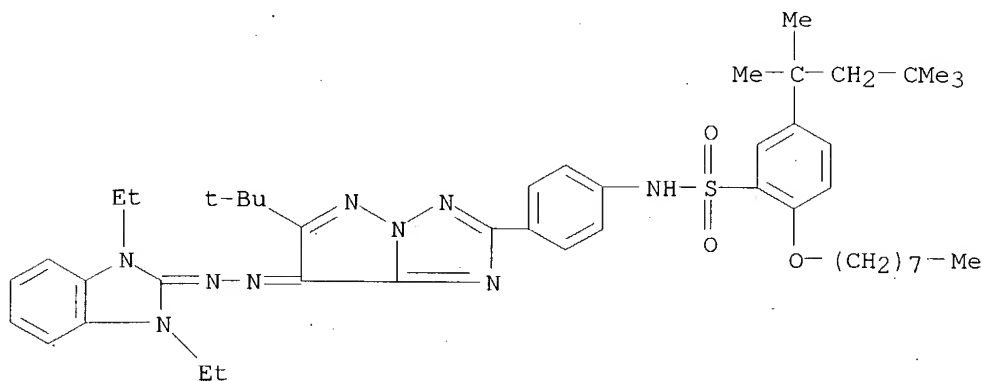
RN 193692-56-7 HCA

CN Benzenesulfonamide, N-[4-[7-[(1,3-dihydro-1,3-dimethyl-2H-benzimidazol-2-ylidene)hydrazono]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 193692-58-9 HCA

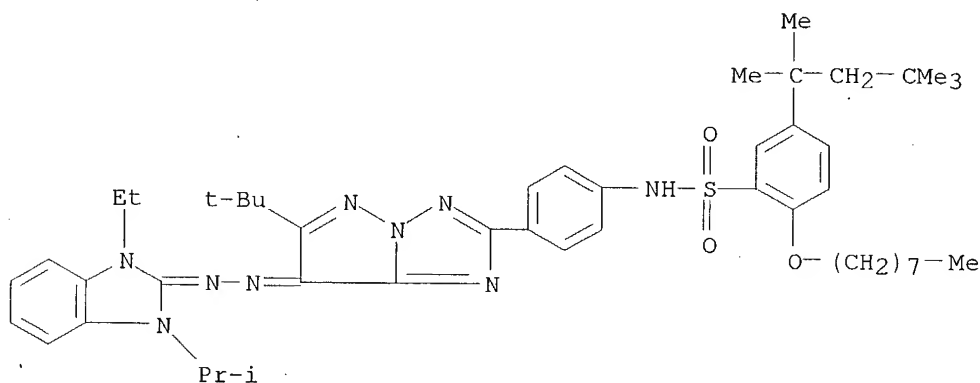
CN Benzenesulfonamide, N-[4-[7-[(1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)hydrazono]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 193692-60-3 HCA

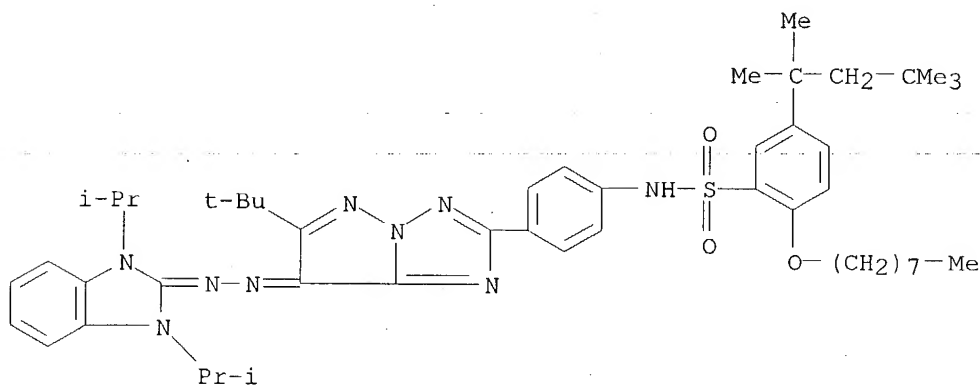
CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-[[1-ethyl-1,3-dihydro-3-(1-methylethyl)-2H-benzimidazol-2-ylidene]hydrazono]-7H-pyrazolo[1,5-

b) [1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



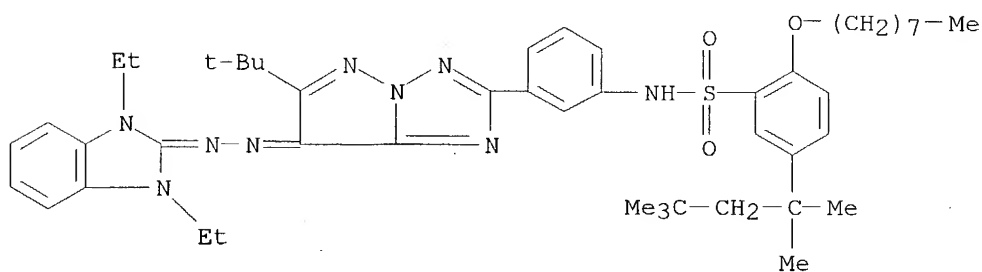
RN 193692-62-5 HCA

CN Benzenesulfonamide, N-[4-[7-[[1,3-dihydro-1,3-bis(1-methylethyl)-2H-benzimidazol-2-ylidene]hydrazono]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



RN 193692-76-1 HCA

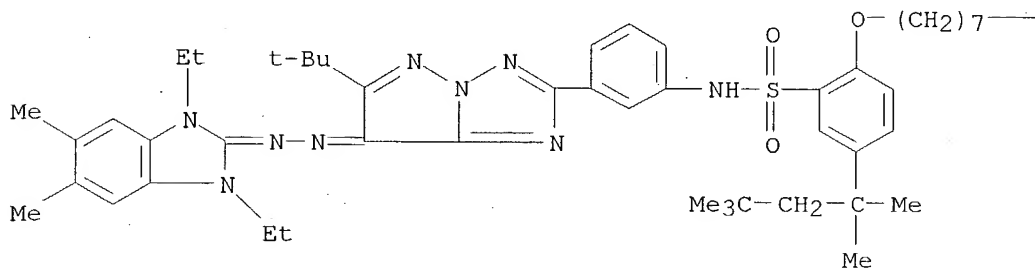
CN Benzenesulfonamide, N-[3-[7-[(1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)hydrazono]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 193692-78-3 HCA

CN Benzenesulfonamide, N-[3-[7-[(1,3-diethyl-1,3-dihydro-5,6-dimethyl-2H-benzimidazol-2-ylidene)hydrazono]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— Me

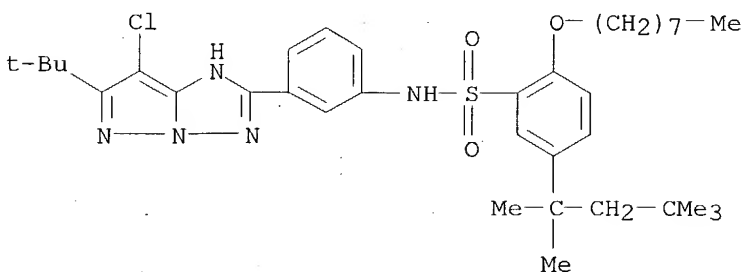
IT 143151-76-2 152828-26-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of non-dissociation-type **pyrazoloazole** dyes)

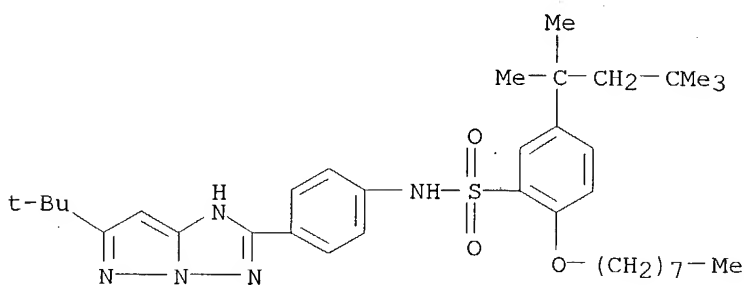
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



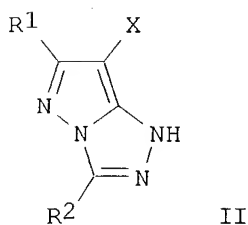
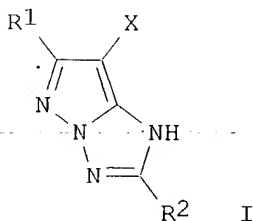
RN 152828-26-7 HCA

CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 9 OF 38 HCA COPYRIGHT 2004 ACS on STN
 126:257022 Silver halide color **photographic** material containing a
pyrazolotriazole magenta **coupler** and a basic metal compound
 to improve developability. Nakagawa, Hajime; Kawagishi, Toshio (Fuji.
 Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 09034071 A2
19970207 Heisei, 60 pp. (Japanese). CODEN: JKXXAF. APPLICATION:
 JP 1995-200255 19950714.

GI



AB Claimed color **photog.** material is characterized by (1) that
 green-sensitive layers contain a **pyrazolotriazole** magenta
coupler I or II where R1 is tert-alkyl, and R2 is alkyl or aryl; X
 is H, halo or leaving group to be released by the **coupling**
 reaction with the oxidized developing agent, and (2) that a basic metal
 compound is incorporated in one of the component layer. The material has a
 good color developability, and provides an image with good color reproduction
 Preferable basic metal compound is Zn(OH)2, and it acts as an activator.
 Preferable magenta **couplers** are compound I (R1 = tert-butyl; R2 =
 1,2-bis-(decyloxycarbonyl)propionamido; X = Cl) and compound II (R1 =

tert-butyl; R2 = 2,4,6-trimethyl-3-(4-(p-benzyloxyphenylsulfo)phenoxy)lauro
ylamido) phenyl; X = Cl), etc.

IC ICM G03C007-38
ICS G03C001-00; G03C001-76; G03C007-00; G03C007-26; G03C007-392;
G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)

ST **pyrazoloazole magenta coupler photog**
material; chromogenic **coupler color photog** material

IT **Magenta couplers**
(color **photog.** material containing **pyrazoloazole**
magenta **coupler** and basic metal compound to improve
developability)

IT 471-34-1, Calcium carbonate, uses 10103-46-5, Calcium phosphate
12125-28-9, Basic magnesium carbonate 20427-58-1, Zinc hydroxide
124351-77-5 **152827-88-8 152827-92-4**
152827-96-8 158600-58-9 **188673-29-2**
188673-30-5 188673-31-6 188673-32-7
188673-33-8 188673-34-9 188673-35-0 **188673-36-1**
188673-37-2 **188673-38-3 188673-40-7** 188673-42-9
188673-44-1 188673-46-3 188673-47-4 188673-48-5
RL: DEV (Device component use); USES (Uses)
(color **photog.** material containing **pyrazoloazole**
magenta **coupler** and basic metal compound to improve
developability)

IT **152827-98-0P 180610-27-9P** 180611-91-0P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(color **photog.** material containing **pyrazoloazole**
magenta **coupler** and basic metal compound to improve
developability)

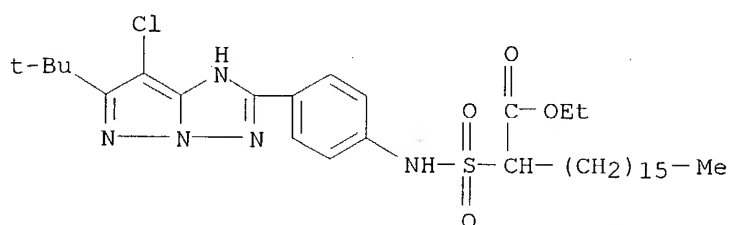
IT 140-66-9P 40654-37-3P 134115-94-9P 152828-23-4P **152828-24-5P**
152828-25-6P 166522-39-0P **175072-03-4P** 180483-97-0P
180483-99-2P 180610-39-3P 180610-49-5P 180610-51-9P
180610-53-1P 180610-55-3P 180610-57-5P 180610-64-4P
180610-65-5P 180611-81-8P 180611-82-9P 180611-83-0P
180611-85-2P 188673-51-0P 188673-56-5P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(**pyrazoloazole magenta coupler** from; for color
photog. materials)

IT 99-76-3 939-79-7 56367-24-9 82560-12-1 116925-10-1 188673-53-2
188673-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(**pyrazoloazole magenta coupler** from; for color
photog. materials)

IT **152827-88-8 152827-92-4 152827-96-8**
188673-29-2 188673-30-5 188673-31-6
188673-32-7 188673-33-8 188673-36-1
188673-38-3 188673-40-7
RL: DEV (Device component use); USES (Uses)
(color **photog.** material containing **pyrazoloazole**
magenta **coupler** and basic metal compound to improve
developability)

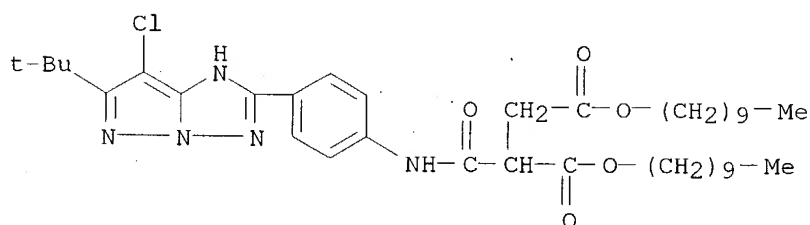
RN 152827-88-8 HCA

CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA
INDEX NAME)



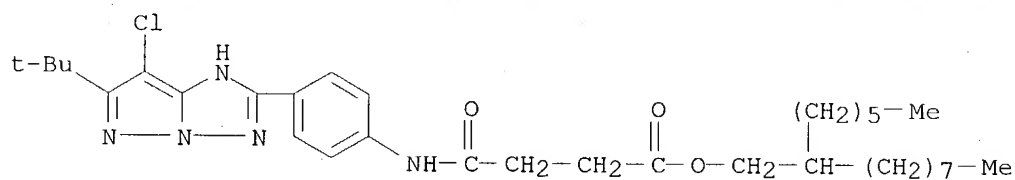
RN 152827-92-4 HCA

CN Butanedioic acid, [[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, didecyl ester (9CI) (CA INDEX NAME)



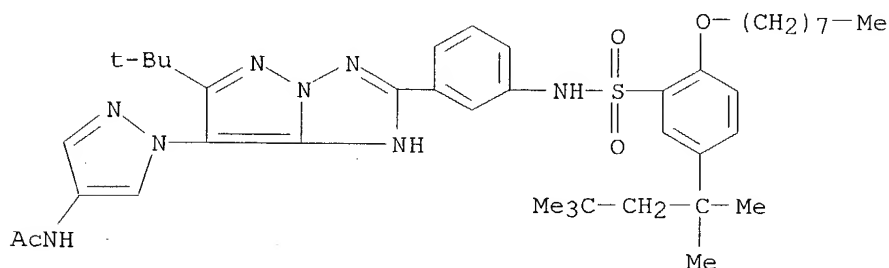
RN 152827-96-8 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 188673-29-2 HCA

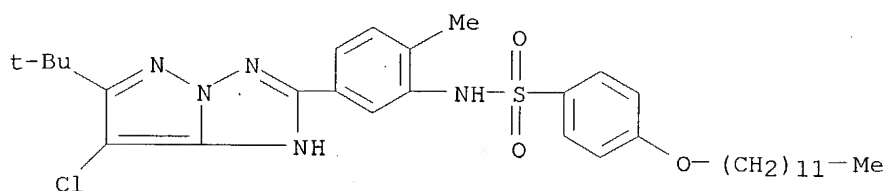
CN Acetamide, N-[1-[6-(1,1-dimethylethyl)-2-[3-[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



RN 188673-30-5 HCA

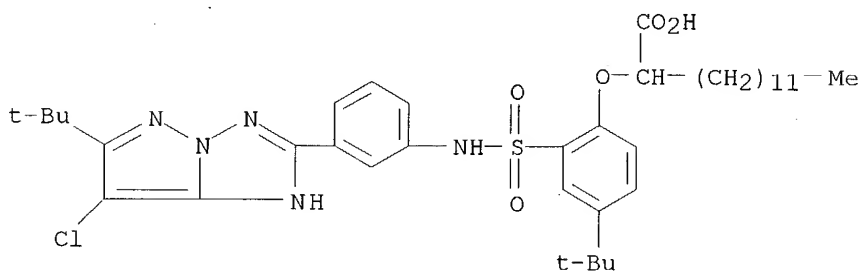
CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-

b][1,2,4]triazol-2-yl]-2-methylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)



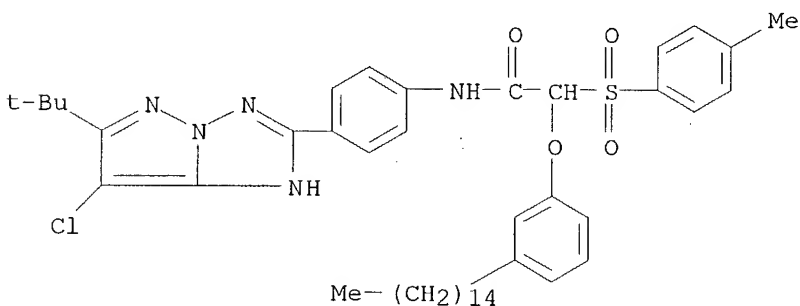
RN 188673-31-6 HCA

CN Tetradecanoic acid, 2-[2-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1-dimethylethyl)phenoxy]- (9CI) (CA INDEX NAME)



RN 188673-32-7 HCA

CN Acetamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(4-methylphenyl)sulfonyl]-2-(3-pentadecylphenoxy)- (9CI) (CA INDEX NAME)

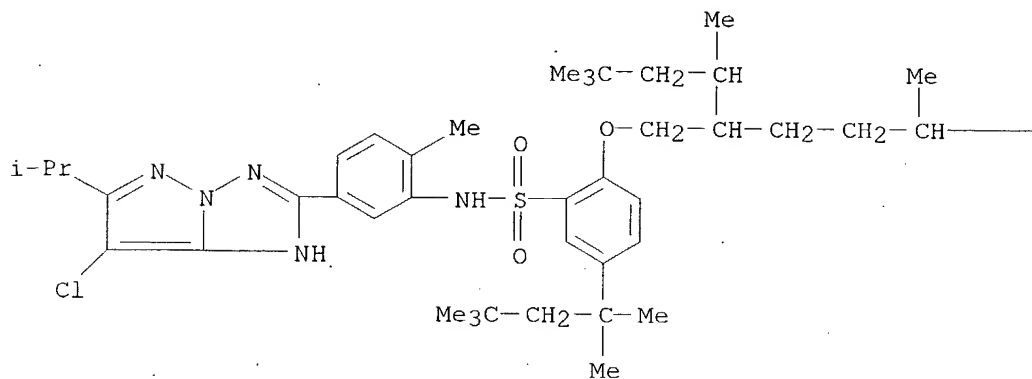


RN 188673-33-8 HCA

CN Propanamide, N-[2-[[[6-(1,1-dimethylethyl)-2-[4-[[[4-methylphenyl)sulfonyl](3-pentadecylphenoxy)acetyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]thio]phenyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

NAME)

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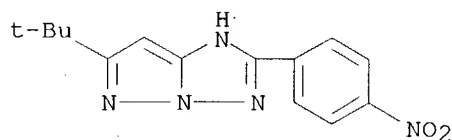
—CH₂—CMe₃

IT 152828-24-5P 152828-25-6P 175072-03-4P

180610-53-1P 180610-55-3P 180610-65-5P

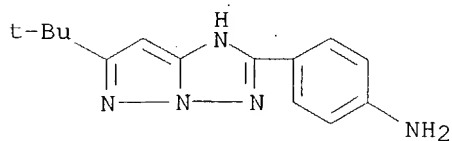
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)(pyrazoloazole magenta coupler from; for color
photog. materials)

RN 152828-24-5 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-(4-nitrophenyl)-
(9CI) (CA INDEX NAME)

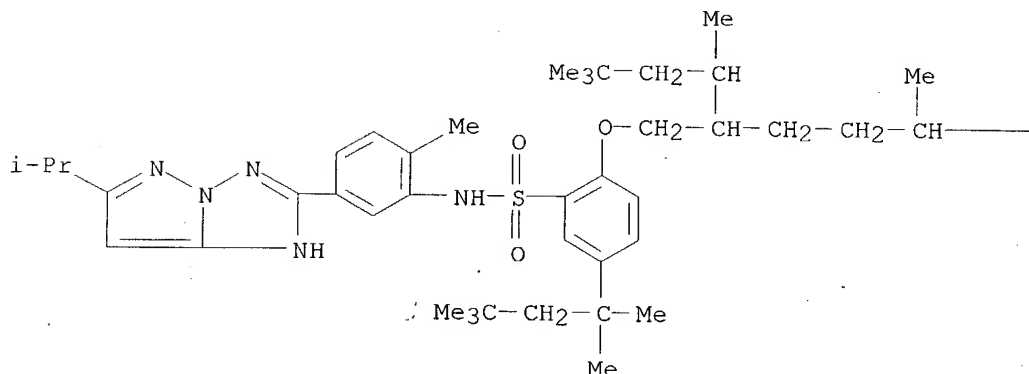
RN 152828-25-6 HCA

CN Benzenamine, 4-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



RN 175072-03-4 HCA

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PAGE 1-B

—CH₂—CMe₃

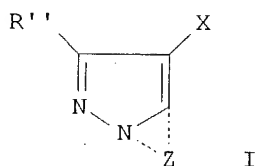
L24 ANSWER 10 OF 38 HCA COPYRIGHT 2004 ACS on STN

125:288718 Silver halide color **photographic** material containing**pyrazoloazole magenta coupler** and hydrazine compound.

Watanabe, Toshuki; Fukuzawa, Yutaka; Ono, Michio; Nakamura, Takashi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08201998 A2

19960809 Heisei, 47 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-25810 19950123.

GI



I

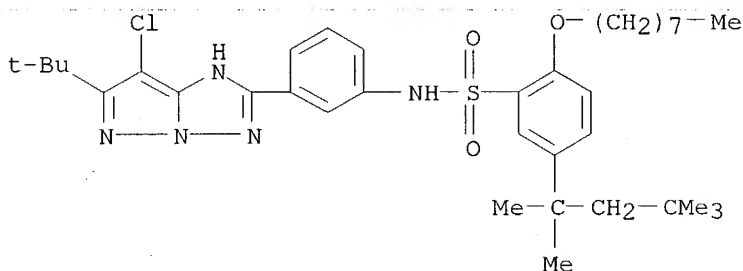
AB The **photog.** material contains a magenta **coupler** I [R11 = H, substituent; Z = nonmetallic group forming 5-membered (substituted) **azole** ring containing 2-4 N; X = H, leaving group] and a hydrazine compound (R21NA21NA22)mP(:Y)(R22)n (R21 = aryl, heterocyclic group; R22 = alkyl, cycloalkyl, aryl, alkoxy, aryloxy; A21, A22 = H, group leaving with alkali; m = 1, 2, 3; n = 0, 1, 2; m + n = 3; Y = S, O). The **photog.** material shows good storage stability and gives clear color **photog.** images with good color reproduction

IC ICM G03C007-38

ICS G03C007-00; G03C007-392

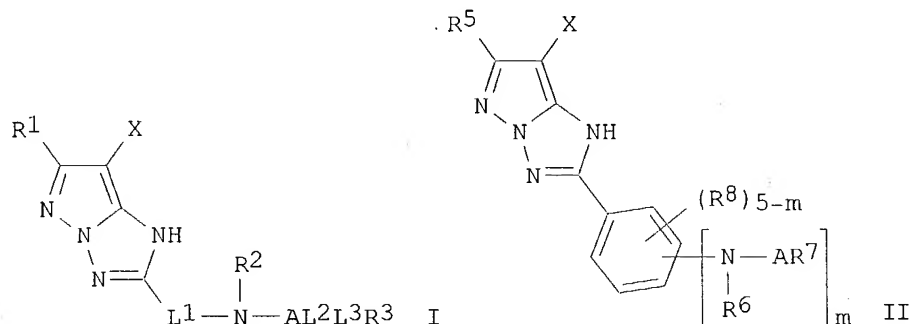
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)
ST **pyrazoloazole magenta coupler photog;**
hydrazine color **photog** material
IT **Photographic couplers**
(magenta, Ag halide color **photog.** material containing
pyrazoloazole magenta coupler and hydrazine compound)
IT **143151-76-2** 143151-79-5 163076-19-5 182801-39-4
182801-40-7 182801-41-8 182801-42-9 182801-43-0 182801-44-1
182801-45-2 182920-91-8
RL: DEV (Device component use); USES (Uses)
(Ag halide color **photog.** material containing
pyrazoloazole magenta coupler and hydrazine compound)
IT 180051-26-7P 180051-27-8P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(Ag halide color **photog.** material containing
pyrazoloazole magenta coupler and hydrazine compound)
IT 112-53-8, 1-Dodecanol 814-49-3, Diethyl chlorophosphate 10025-87-3,
Phosphorus oxychloride 182801-46-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of hydrazine compound for **photog.** material)
IT **143151-76-2**
RL: DEV (Device component use); USES (Uses)
(Ag halide color **photog.** material containing
pyrazoloazole magenta coupler and hydrazine compound)
RN 143151-76-2 HCA
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



L24 ANSWER 11 OF 38 HCA COPYRIGHT 2004 ACS on STN
125:181142 Silver halide color **photographic** material containing
pyrazolotriazole magenta coupler. Kawagishi, Toshio;
Katsumata, Taiji (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho
JP 08146574 A2 **19960607** Heisei, 55 pp. (Japanese). CODEN:
JKXXAF. APPLICATION: JP 1994-305748 19941116.

GI



AB The **photog.** material contains 1H-pyrazolo[1, 5-b][1, 2, 4] **triazole coupler** I or II [R1 = H, halo, substituent; X = H, halo, leaving group; L1 = divalent group; R2, R4 = H, alkyl, aryl, acyl, alkanesulfonyl, arenesulfonyl; A = CO, SO2; L2 = 1,2-phenylene, C1-3 alkylene; L3 = N(R4)CO, N(R4)SO2, CON(R4), SO2(R4); R3 = alkyl, aryl; R5 = secondary alkyl; R8 = substituent; R6 = H, alkyl, aryl, acyl, alkanesulfonyl, arenesulfonyl; A = CO, SO2; R7 = alkyl, aryl; m = 1,2]. The **photog.** material shows good color reproduction and lightfastness.

IC ICM G03C007-38

ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST pyrazolo triazole photog. magenta coupler

IT Photographic couplers

(magenta, Ag halide color **photog.** material containing pyrazolotriazole magenta coupler)

IT 180610-28-0 180610-29-1 180610-30-4

180610-31-5 180610-32-6 180610-33-7

180610-34-8 180610-35-9 180610-36-0 180610-37-1

180610-60-0 180610-61-1 180610-62-2 180610-63-3

RL: DEV (Device component use); USES (Uses)

(Ag halide color **photog.** material containing pyrazolotriazole magenta coupler)

IT 180610-26-8P 180610-27-9P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(Ag halide color **photog.** material containing pyrazolotriazole magenta coupler)

IT 134115-94-9P 180610-39-3P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(in pyrazolotriazole photog. magenta coupler preparation)

IT 140-66-9P 180483-97-0P 180483-99-2P 180610-42-8P 180610-44-0P

180610-47-3P 180610-49-5P 180610-51-9P 180610-53-1P

180610-55-3P 180610-57-5P 180610-64-4P 180610-65-5P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(in pyrazolotriazole photog. magenta coupler preparation)

IT 302-01-2, Hydrazine, reactions 939-79-7 7803-49-8, Hydroxylamine,

reactions 56367-24-9 82560-12-1 116910-31-7 116925-10-1
180610-59-7

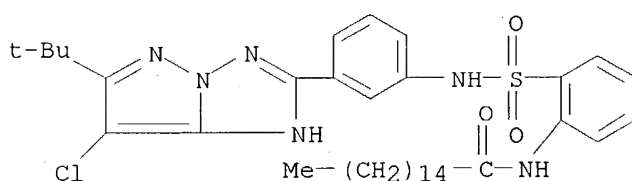
RL: RCT (Reactant); RACT (Reactant or reagent)
(in **pyrazolotriazole photog. magenta**
coupler preparation)

IT 180610-28-0 180610-29-1 180610-31-5
180610-32-6 180610-33-7 180610-37-1
180610-60-0

RL: DEV (Device component use); USES (Uses)
(Ag halide color **photog.** material containing
pyrazolotriazole magenta coupler)

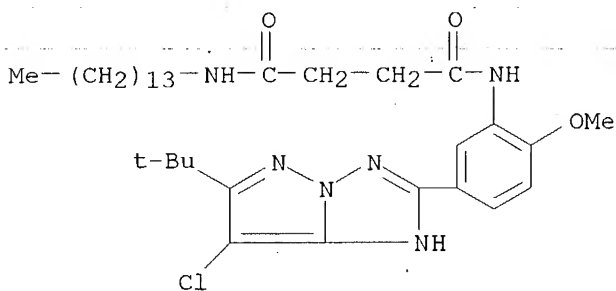
RN 180610-28-0 HCA

CN Hexadecanamide, N-[2-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



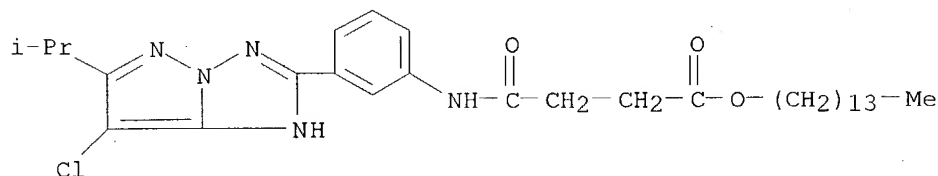
RN 180610-29-1 HCA

CN Butanediamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methoxyphenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



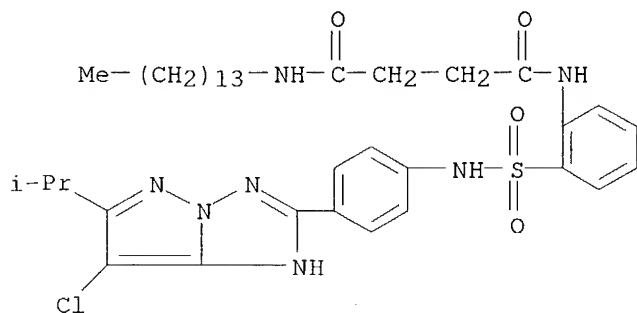
RN 180610-31-5 HCA

CN Butanoic acid, 4-[[[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



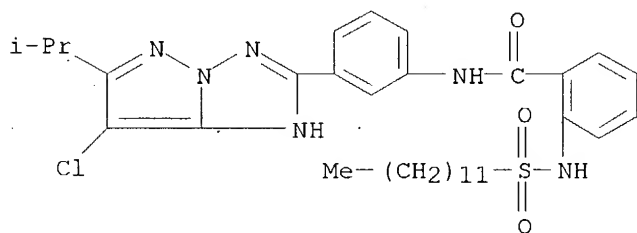
RN 180610-32-6 HCA

CN Butanediamide, N-[2-[[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]-N'-tetradecyl- (9CI) (CA INDEX NAME)



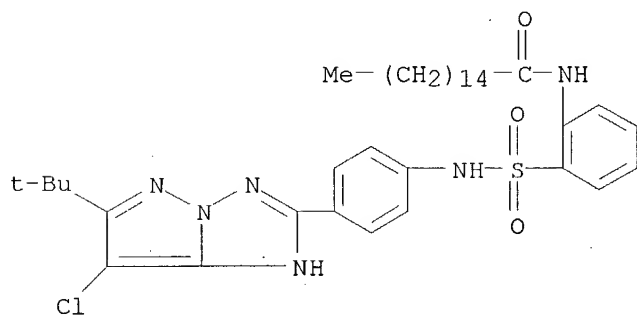
RN 180610-33-7 HCA

CN Benzamide, N-[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(dodecylsulfonyl)amino]- (9CI) (CA INDEX NAME)



RN 180610-37-1 HCA

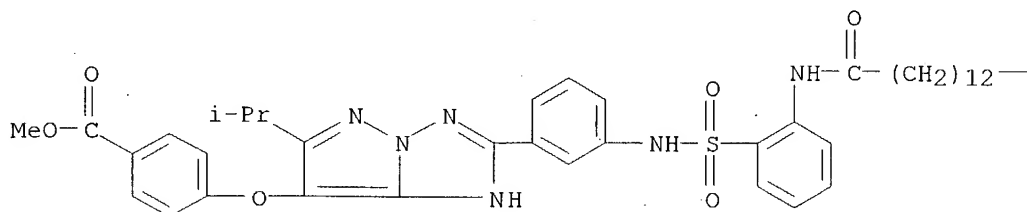
CN Hexadecanamide, N-[2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



RN 180610-60-0 HCA

CN Benzoic acid, 4-[[[6-(1-methylethyl)-2-[3-[[[2-[(1-oxotetradecyl)amino]phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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— Me

IT 180610-27-9P

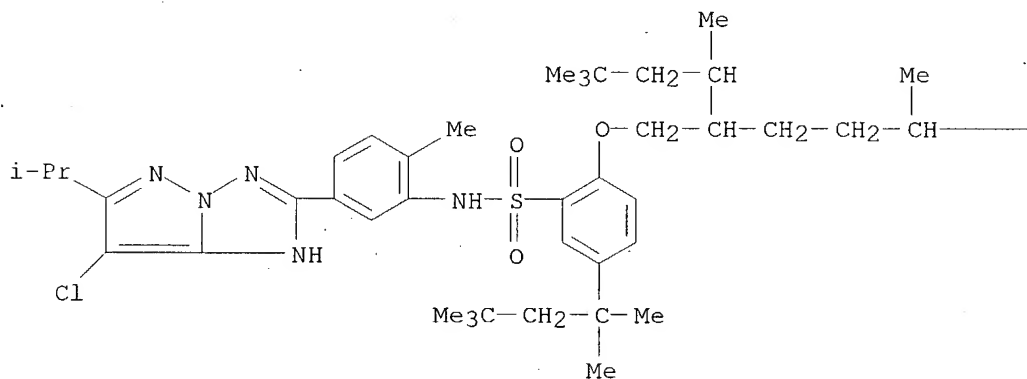
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(Ag halide color **photog.** material containing **pyrazolotriazole magenta coupler**)

RN 180610-27-9 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-5-(1,1,3,3-tetramethylbutyl)-2-[[5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)octyl]oxy]- (9CI) (CA INDEX NAME)

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— CH₂— CMe₃

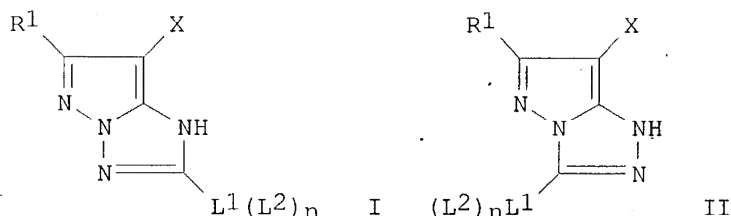
IT 180610-53-1P 180610-55-3P 180610-65-5P

PAGE 1-B

—CH₂—CMe₃

L24 ANSWER 12 OF 38 HCA COPYRIGHT 2004 ACS on STN
 125:181141 Silver halide color **photographic** material containing
pyrazolotriazole magenta coupler. Kawagishi, Toshio;
 Nakamine, Takeshi; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn.
 Kokai Tokkyo Koho JP 08137065 A2 19960531 Heisei, 44 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-279295 19941114.

GI



AB The **photog.** material contains a **pyrazolotriazole coupler** I or II (R₁ = H, halo, substituent; X = H, halo, leaving group; L₁ = n + 1 valent linkage; L₂ = a group containing at least ANHR₄; A = CO, SO₂; R₄ = H, alkyl). The material shows good color developability and gives an color image with lightfastness.

IC ICM G03C007-38
 ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **pyrazolo triazole magenta photog coupler**

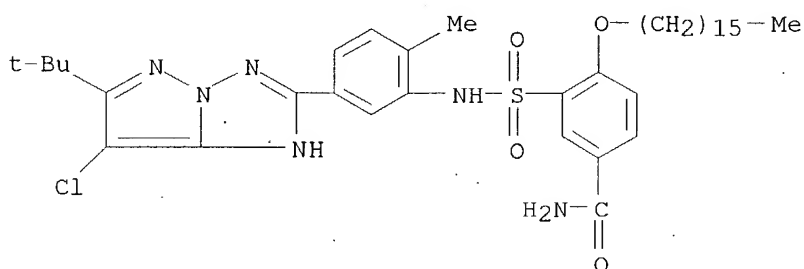
IT **Photographic couplers**
 (magenta, Ag halide color **photog.** material containing **pyrazolotriazole magenta coupler**)

IT 180483-85-6 180483-86-7 180483-87-8 180483-88-9
 180483-89-0 180483-90-3 180483-91-4 180483-92-5 180483-93-6
 RL: DEV (Device component use); USES (Uses)
 (Ag halide color **photog.** material containing **pyrazolotriazole magenta coupler**)

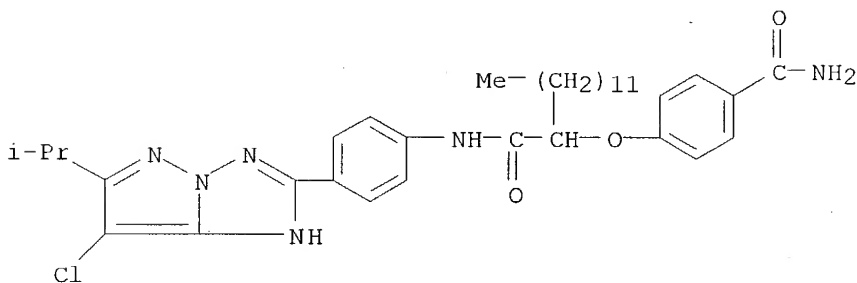
IT 180483-83-4P 180483-84-5P
 RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (Ag halide color **photog.** material containing **pyrazolotriazole magenta coupler**)

IT 154020-68-5P 177281-00-4P 177281-01-5P 180483-94-7P 180483-95-8P
 180483-97-0P 180483-98-1P 180483-99-2P 180484-00-8P 180484-01-9P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (in preparation of **pyrazolotriazole photog.** magenta

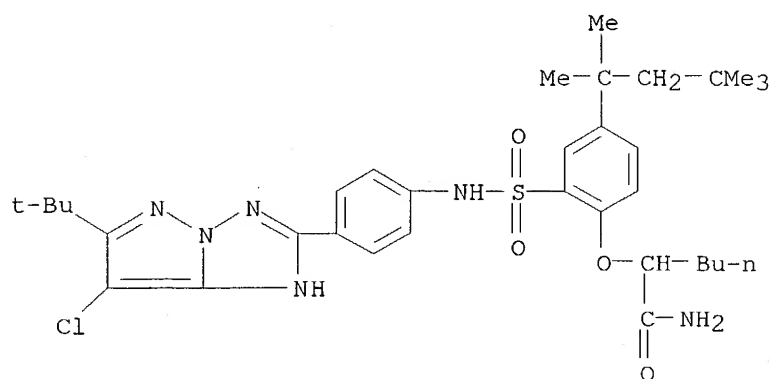
coupler)
IT 63-74-1 140-66-9, p-tert-Octyl phenol 82560-12-1 116925-10-1
155218-35-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of **pyrazolotriazole photog. magenta**
coupler)
IT 180483-85-6 180483-86-7 180483-93-6
RL: DEV (Device component use); USES (Uses)
(Ag halide color **photog.** material containing
pyrazolotriazole magenta coupler)
RN 180483-85-6 HCA
CN Benzamide, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-
(9CI) (CA INDEX NAME)



RN 180483-86-7 HCA
CN Benzamide, 4-[[[1-[[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]tridecyl]oxy]- (9CI) (CA
INDEX NAME)

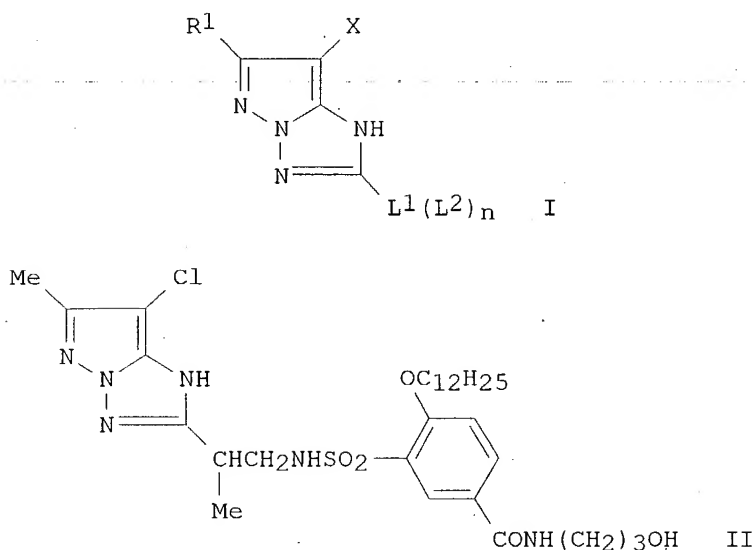


RN 180483-93-6 HCA
CN Hexanamide, 2-[2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-
tetramethylbutyl)phenoxy]- (9CI) (CA INDEX NAME)



L24 ANSWER 13 OF 38 HCA COPYRIGHT 2004 ACS on STN
125:181126 Silver halide color **photographic** material with high
coloring density and image fastness. Kawagishi, Toshio; Nakamine,
Takeshi; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai
Tokkyo Koho JP 08146575 A2 **19960607** Heisei, 58 pp. . (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1994-305751 19941116.

GI



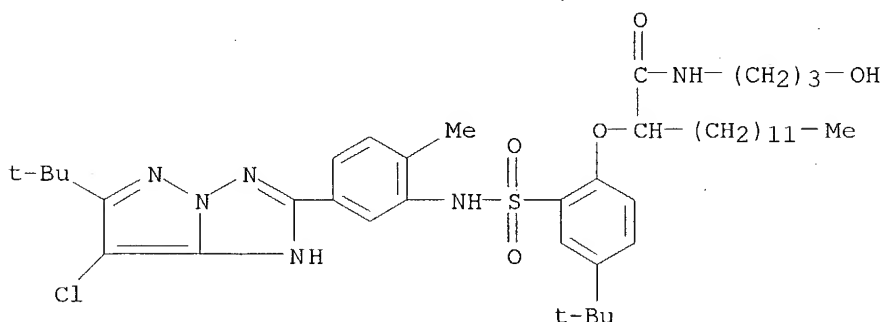
AB The title **photog.** material contains a 1H-pyrazolo[1,5-b][1,2,4]
triazole coupler I (R1 = H, halo, substituted; L1 = n+1
valent group; L2 = specified group; X = H, halo, group releasable on
reaction with an oxidized aromatic primary amine developer; n = 1, 2), e.g.
the **coupler** (II).

IC ICM G03C007-38

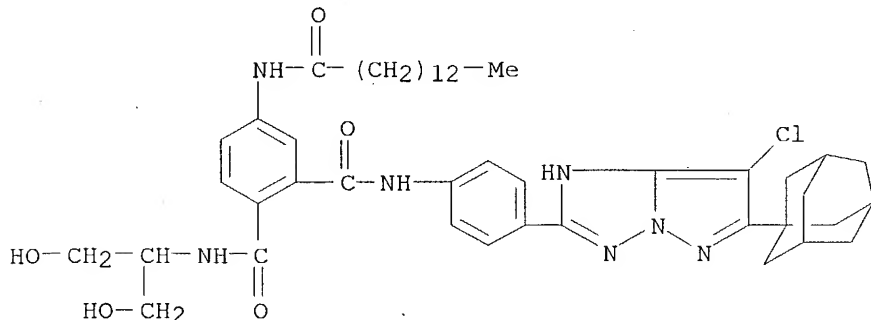
ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)
 ST photog material triazole coupler
 IT Photographic films
 (triazole coupler for)
 IT Photographic couplers
 (triazole for photog. material)
 IT 180611-90-9 180611-92-1 180611-93-2 180611-94-3
 180611-95-4 180611-96-5 180611-97-6 180611-98-7
 180611-99-8 180612-01-5 180612-02-6
 180612-03-7 180612-04-8
 RL: DEV (Device component use); USES (Uses)
 (coupler for photog. material)
 IT 180611-91-0P 180612-00-4P
 RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
 (Preparation); USES (Uses)
 (prepared as coupler for photog. material)
 IT 40654-37-3P 134115-94-9P 166522-39-0P 177281-00-4P 177281-01-5P
 177281-02-6P 177281-03-7P 177281-04-8P 180483-97-0P 180483-99-2P
 180610-39-3P 180610-49-5P 180610-51-9P 180610-53-1P
 180610-55-3P 180611-81-8P 180611-82-9P 180611-83-0P
 180611-84-1P 180611-85-2P 180611-89-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepared for preparation of triazole coupler for
 photog. material)
 IT 99-76-3 112-89-0 302-01-2, Hydrazine, reactions 939-79-7
 7790-94-5, Chlorosulfuric acid 7791-25-5, Sulfuryl chloride
 16082-33-0, 1H-Pyrazole-3,5-diamine 82560-12-1 116925-10-1
 180611-86-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of triazole coupler for photog.
 material)
 IT 180611-92-1 180611-95-4 180611-98-7
 180612-01-5 180612-02-6 180612-03-7
 RL: DEV (Device component use); USES (Uses)
 (coupler for photog. material)
 RN 180611-92-1 HCA
 CN Tetradecanamide, 2-[2-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
 b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(1,1-
 dimethylethyl)phenoxy]-N-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)

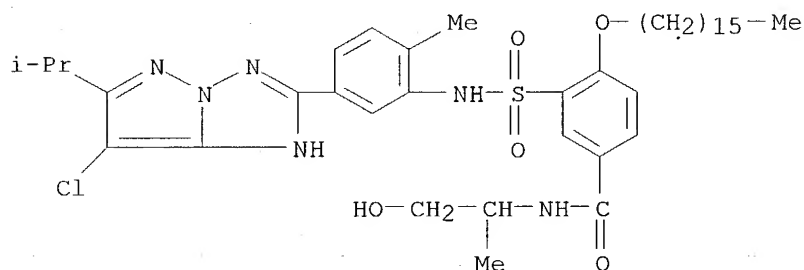


RN 180611-95-4 HCA
 CN 1,2-Benzenedicarboxamide, N2-[4-(7-chloro-6-tricyclo[3.3.1.1^{3,7}]dec-1-yl-
 1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-N1-[2-hydroxy-1-
 (hydroxymethyl)ethyl]-4-[(1-oxotetradecyl)amino]- (9CI) (CA INDEX NAME)



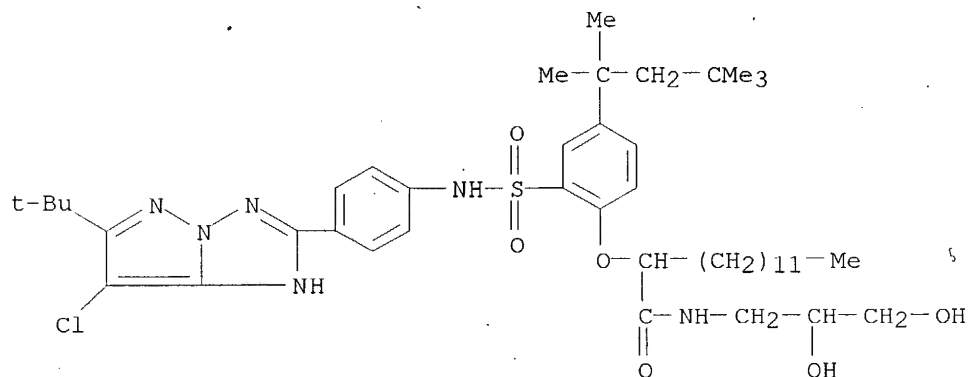
RN 180611-98-7 HCA

CN Benzamide, 3-[[[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-N-(2-hydroxy-1-methylethyl)- (9CI) (CA INDEX NAME)



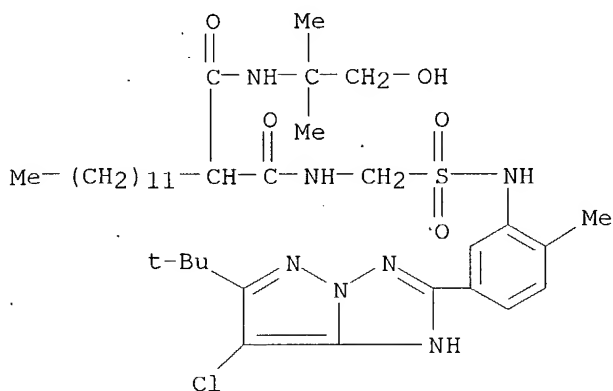
RN 180612-01-5 HCA

CN Tetradecanamide, 2-[2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-N-(2,3-dihydroxypropyl)- (9CI) (CA INDEX NAME)



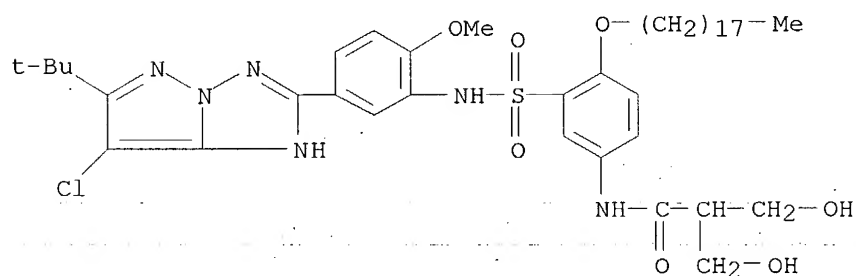
RN 180612-02-6 HCA

CN Propanediamide, N-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]methyl]-2-dodecyl-N'-(2-hydroxy-1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 180612-03-7 HCA

CN Propanamide, N-[3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methoxyphenyl]amino]sulfonyl]-4-(octadecyloxy)phenyl]-3-hydroxy-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)

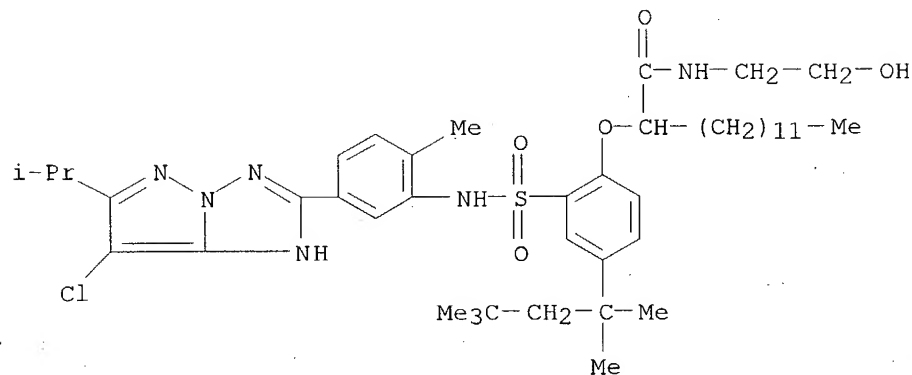


IT 180612-00-4P

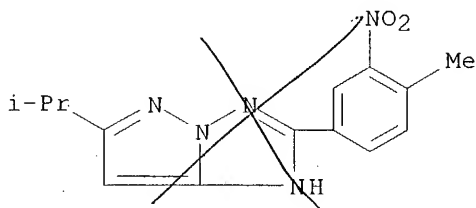
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(prepared as **coupler** for **photog.** material)

RN 180612-00-4 HCA

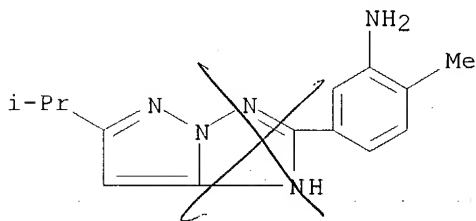
CN Tetradecanamide, 2-[2-[[[5-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



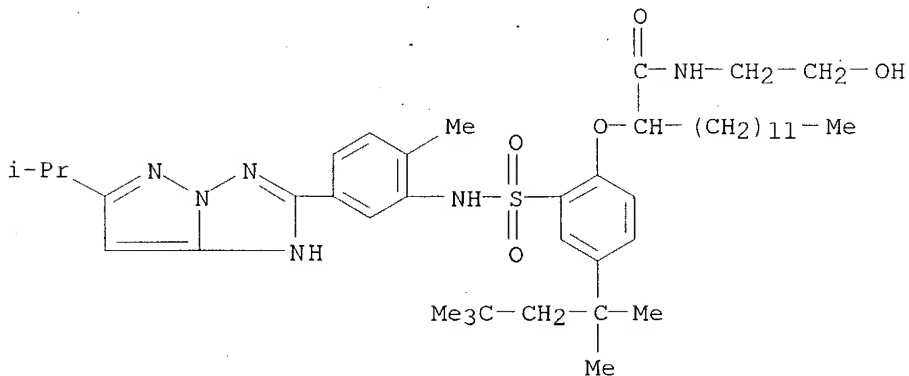
.IT 180610-53-1P 180610-55-3P 180611-89-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepared for preparation of **triazole coupler** for
photog. material)
 RN 180610-53-1 HCA
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1-methylethyl)-2-(4-methyl-3-
 nitrophenyl)- (9CI) (CA INDEX NAME)



RN 180610-55-3 HCA
 CN Benzenamine, 2-methyl-5-[6-(1-methylethyl)-1H-pyrazolo[1,5-
 b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)

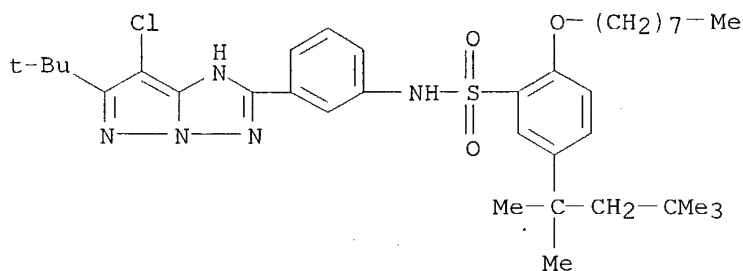


RN 180611-89-6 HCA
 CN Tetradecanamide, N-(2-hydroxyethyl)-2-[2-[[[2-methyl-5-[6-(1-methylethyl)-
 1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(1,1,3,3-
 tetramethylbutyl)phenoxy]- (9CI) (CA INDEX NAME)



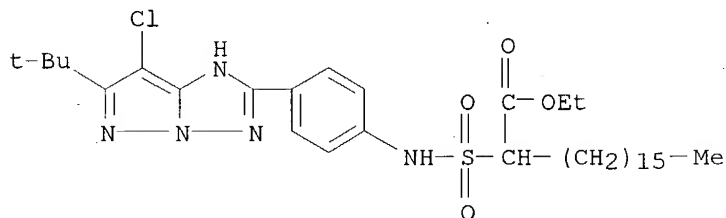
L24 ANSWER 14 OF 38 HCA COPYRIGHT 2004 ACS on STN
 124:302441 Silver halide color **photographic** material and method of
 forming color image. Yoshioka, Yasuhiro (Fuji Photo Film Co Ltd, Japan).
 Jpn. Kokai Tokkyo Koho JP 08029933 A2 19960202 Heisei, 63 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-113806 19950414.
 PRIORITY: JP 1994-121719 19940511.

- AB The Ag halide color **photog.** material comprises magenta color-forming Ag halide emulsion layers, ≥ 1 of which contains 1H-pyrazolo[1,5-b]-1,2,4-triazole-type magenta **coupler**
. One or more of yellow color-forming Ag halide emulsion layers of the **photog** material contains a yellow color-forming **coupler** with a sp. structure. The process exposes the **photog.** material by a scanning method at an exposure time of $\leq 10^{-4}$ s per an image element before development. The **photog.** material reduced color mixing and exhibited excellent color reproducibility.
- IC ICM G03C007-38
ICS G03C001-047; G03C005-08; G03C007-00; G03C007-34; G03C007-36; G03C007-407
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST silver halide color **photog** material; **pyrazolotriazole** magenta **coupler**; yellow **coupler** color **photog** material; scanning exposure color **photog** material
- IT **Photographic emulsions**
(**pyrazolotriazole** magenta **couplers** and yellow **couplers**)
- IT **Photographic emulsions**
(color, **pyrazolotriazole**-type compound and yellow **couplers** in)
- IT **Photographic couplers**
(magenta, **pyrazolotriazole**-type compound and yellow **couplers**)
- IT 53918-52-8 143151-76-2 152827-88-8 152827-92-4
152827-96-8 152827-98-0 154256-13-0
173731-24-3 173855-72-6 174675-42-4
176218-60-3 176218-61-4 176218-62-5
176218-63-6 176218-64-7 176218-65-8 176218-66-9
176218-67-0 176218-68-1 176218-69-2 176218-70-5 176218-71-6
176218-72-7 176218-73-8 176218-74-9 176218-75-0
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(silver halide color **photog.** material and method of forming color image)
- IT 143151-76-2 152827-88-8 152827-92-4
152827-96-8 152827-98-0 173731-24-3
173855-72-6 174675-42-4 176218-60-3
176218-61-4 176218-62-5 176218-63-6
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(silver halide color **photog.** material and method of forming color image)
- RN 143151-76-2 HCA
- CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



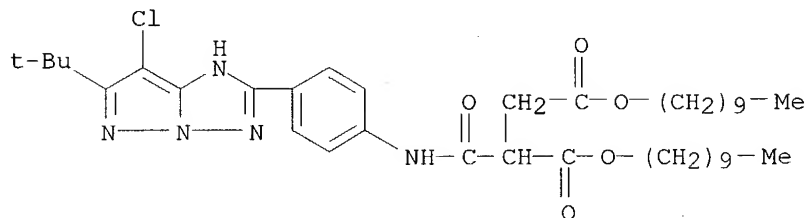
RN 152827-88-8 HCA

CN Octadecanoic acid, 2-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



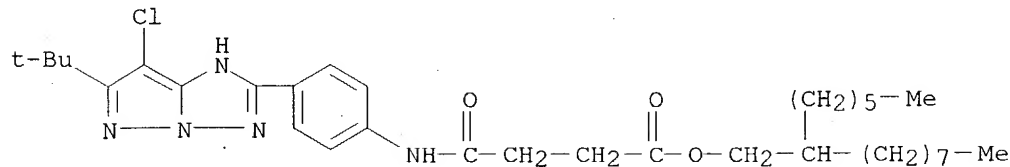
RN 152827-92-4 HCA

CN Butanedioic acid, [[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, didecyl ester (9CI) (CA INDEX NAME)



RN 152827-96-8 HCA

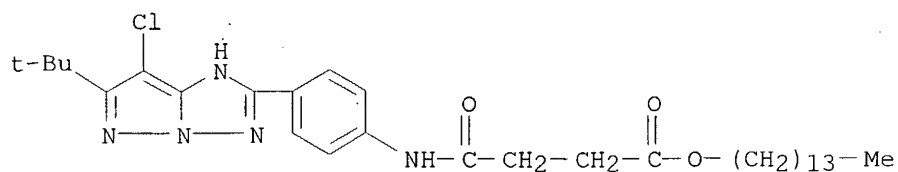
CN Butanoic acid, 4-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 152827-98-0 HCA

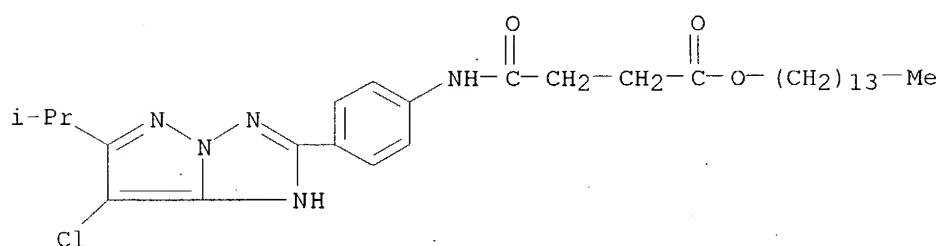
CN Butanoic acid, 4-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)

b)[1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



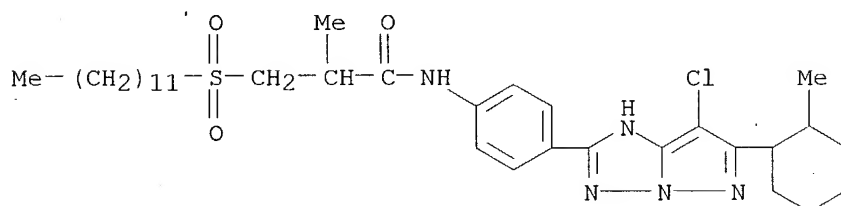
RN 173731-24-3 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



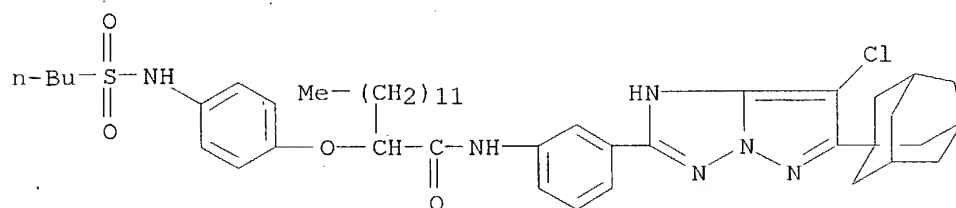
RN 173855-72-6 HCA

CN Propanamide, N-[4-[7-chloro-6-(2-methylcyclohexyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-(dodecylsulfonyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 174675-42-4 HCA

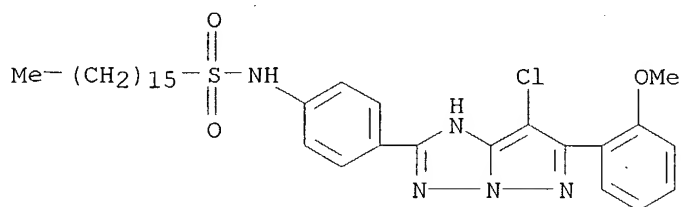
CN Tetradecanamide, 2-[4-[(butylsulfonyl)amino]phenoxy]-N-[3-(7-chloro-6-tricyclo[3.3.1.1.3,7]dec-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 176218-60-3 HCA

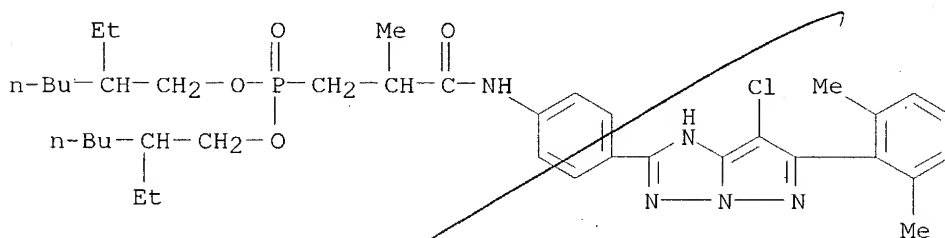
CN 1-Hexadecanesulfonamide, N-[4-[7-chloro-6-(2-methoxyphenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-

pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



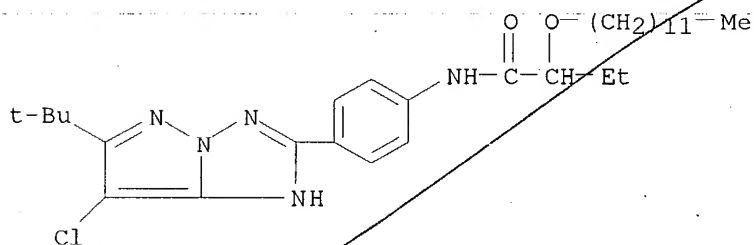
RN 176218-61-4 HCA

CN Phosphonic acid, [3-[[4-[7-chloro-6-(2,6-dimethylphenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-2-methyl-3-oxopropyl]-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



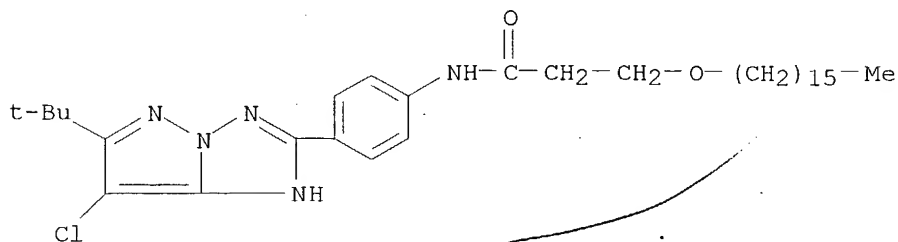
RN 176218-62-5 HCA

CN Butanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(dodecyloxy)- (9CI) (CA INDEX NAME)



RN 176218-63-6 HCA

CN Propanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-(hexadecyloxy)- (9CI) (CA INDEX NAME)



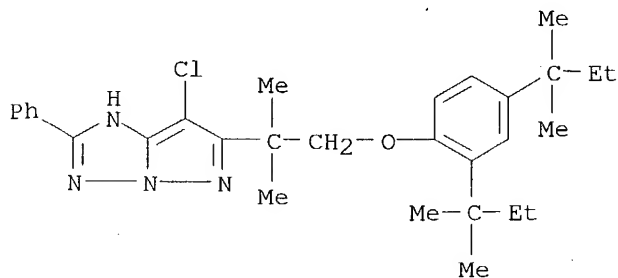
L24 ANSWER 15 OF 38 HCA COPYRIGHT 2004 ACS on STN

124:302390 Silver halide color **photographic** materials. Takada,
Kyoto (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07311450
A2 19951128 Heisei, 49 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1994-125777 19940516.

GI

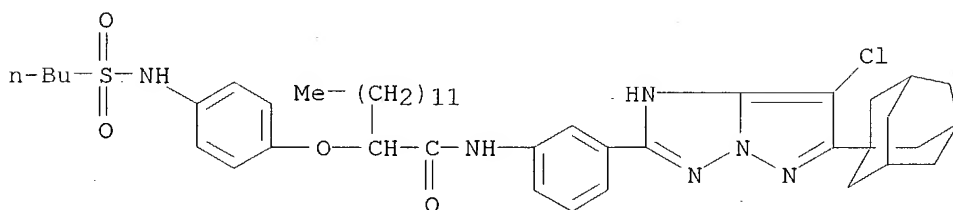
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB The title materials comprise a polyester resin support coated with **photog.** constitutive layers including ≥ 1 Ag halide emulsion layer ≥ 1 of which contains ≥ 1 magenta **coupler I** [R1 = CR4R5R6, CHR7R8, II (R4, R7 = alkyl, cycloalkyl, aryl heterocyclyl; R5, R6, R8-10 = substituent, R4, R5, and R6 or R7 and R8 may form a 5- to 7-membered single or condensed ring; m = 0-4); R2, R3 = substituent; n = 0-4; X = H or group releasable upon reaction with oxidized developing agents] and a Ag halide emulsion comprising Ag(Cl,Br) (AgCl ≥ 90 mol%) or AgCl and is hardened with ≥ 1 compound of III [R11 = Cl, OH, alkyl, alkoxy, alkylthio, OM (M = monovalent metal atom), NR13R14, NHCOR15 (R13-15 = H, alkyl, aryl); R12 represents the groups shown in R11, but is not Cl] and IV [R11, R12 = Cl, OH, alkyl, alkoxy, OM (M = monovalent metal atom); Q, Q1 = O, S, NH; L = alkylene, arylene; l, m, n = 0, 1] and contain a F-type surfactant in ≥ 1 of the **photog.** constitutive layers. The materials show good processability in rapid development process and storage stability and provide durable color images with good color reproducibility. Thus, a multilayer color **photog.** film was prepared by using a BaSO4-containing PET support, a green-sensitive emulsion layer containing Ag(Cl, Br) and magenta **coupler V** and using hardener III (R11 = ONa; R12 = Cl), and a protective layer containing C8F17SO2NPrCH2CO2K.
- IC ICM G03C007-38
ICS C08J007-04; G03C001-035; G03C001-30; G03C001-38; G03C001-79;
G03C001-795; G03C007-00
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST magenta **coupler photog pyrazolotriazole**;
triazine deriv hardener **photog** material; fluorine surfactant
color **photog** material
- IT **Photographic couplers**
(pyrazolotriazole derivs.as)
- IT **Photographic hardening agents**
(triazine derivs. as)
- IT 55910-10-6 60131-27-3 174675-49-1 174675-50-4
RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)
(**photog.** films containing)
- IT 2736-18-7 32998-00-8 49624-61-5 101235-41-0 102055-97-0
102325-56-4 114824-82-7 174675-48-0
RL: DEV (Device component use); USES (Uses)
(**photog.** hardening agent)
- IT 152827-96-8 165729-59-9 174675-40-2
174675-41-3 174675-42-4 174675-43-5
174675-44-6 174675-45-7 174675-46-8
174675-47-9
RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)



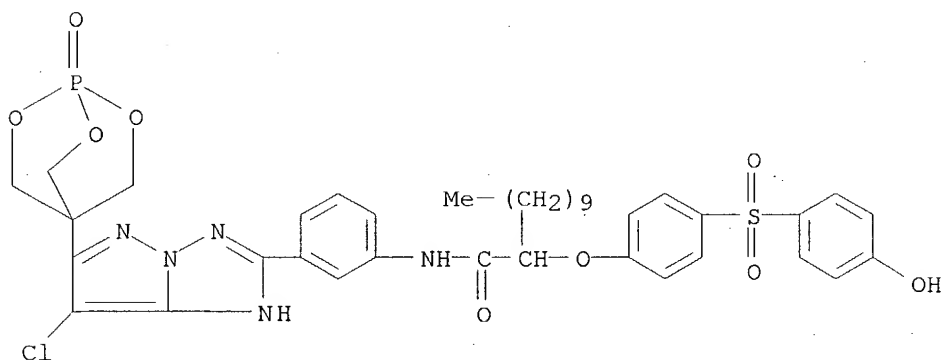
RN 174675-42-4 HCA

CN Tetradecanamide, 2-[4-[(butylsulfonyl)amino]phenoxy]-N-[3-(7-chloro-6-tricyclo[3.3.1.1^{3,7}]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



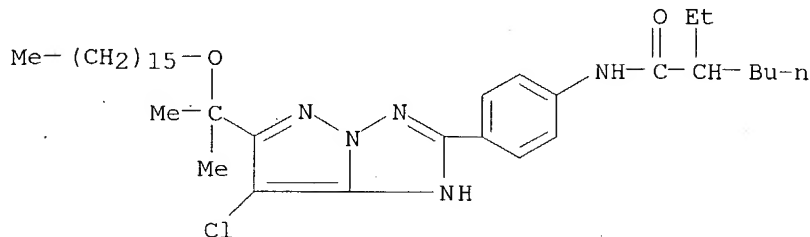
RN 174675-43-5 HCA

CN Dodecanamide, N-[3-[7-chloro-6-(1-oxido-2,6,7-trioxo-1-phosphabicyclo[2.2.2]oct-4-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[4-[(4-hydroxyphenyl)sulfonyl]phenoxy]- (9CI) (CA INDEX NAME)



RN 174675-44-6 HCA

CN Benzenesulfonamide, 2-chloro-N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-5-[(hexadecylsulfonyl)amino]- (9CI) (CA INDEX NAME)



L24 ANSWER 16 OF 38 HCA COPYRIGHT 2004 ACS on STN

124:215913 Color silver halide **photographic** material. Ootani, Shigeaki (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07333795 A2 **19951222** Heisei, 69 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-148646 19940607.

AB In the title full-color Ag halide **photog.** material, 2 types of specified dyes having ≥ 1 dissociable group are dispersed in ≥ 1 **photog.** component layers as solid fine particles, and the magenta **coupler**-containing photosensitive emulsion layer contains a **pyrazolotriazole coupler**, and contains AgClBr, AgClBrI, AgClI or AgCl grains with AgCl content $\geq 70\%$, to which 0.0005-0.05 mol of a Br ion releasing compound and/or Br atom releasing compound is added per mol of Ag halide after Ag halide grains are formed but before the emulsion is applied to a **photog.** substrate.

IC ICM G03C007-38

ICS -G03C001-035; G03C001-06; G03C001-76; G03C001-83; G03C001-85; G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST color **photog** emulsion dye; magenta **photog** **coupler pyrazolotriazole**

IT **Photographic** emulsions
(silver chloride content controlled)

IT **Photographic** films
(color, with good long-term stability)

IT **Photographic couplers**
(magenta, **pyrazolotriazole** type)

IT 77666-73-0 128188-09-0 148520-58-5 172839-14-4 174614-89-2
174614-90-5

RL: DEV (Device component use); USES (Uses)
(dye for **photog.** material)

IT 143151-76-2 152827-83-3 152827-96-8
174614-85-8 174614-86-9 174614-87-0
174614-88-1

RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)

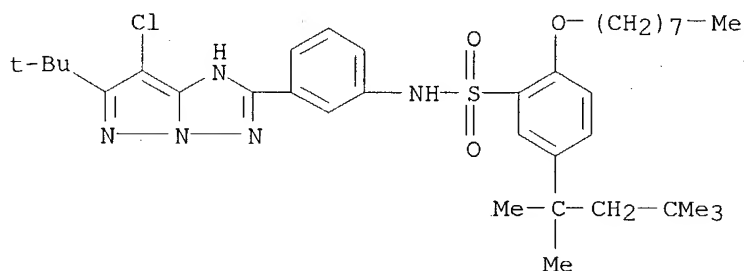
IT 7758-02-3, Potassium bromide, processes
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(**photog.** material containing)

IT 143151-76-2 152827-83-3 152827-96-8
174614-85-8 174614-86-9 174614-87-0
174614-88-1

RL: DEV (Device component use); USES (Uses)
(**photog.** magenta **coupler**)

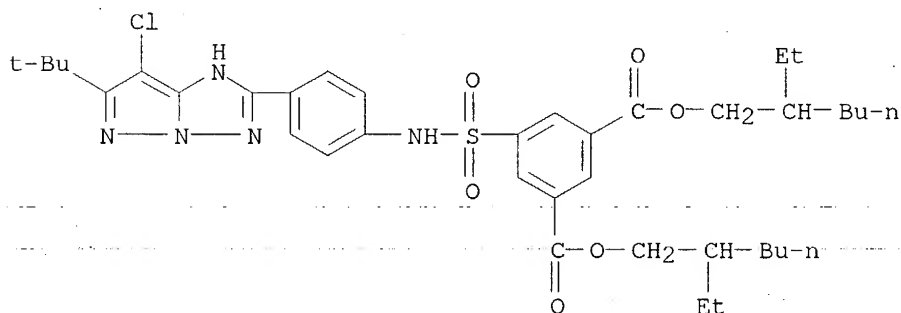
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



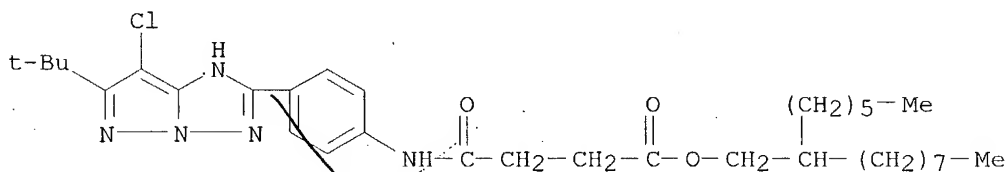
RN 152827-83-3 HCA

CN 1,3-Benzenedicarboxylic acid, 5-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



RN 152827-96-8 HCA

CN Butanoic acid, 4-[[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 174614-85-8 HCA

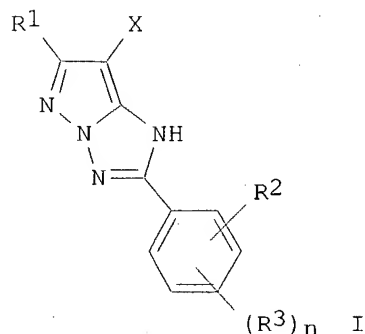
CN Octadecanamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-4-oxo- (9CI) (CA INDEX NAME)



L24 ANSWER 17 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:270675 Full color silver halide photographic material with superior sharpness and improved processing independence. Kawai, Kyoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07219170 A2
 19950818 Heisei, 61 pp. (Japanese). CODEN: JKXXAF. APPLICATION:
 JP 1994-23528 19940127.

GI



AB In the title full-color photog. material, the magenta layer contains ≥ 1 coupler I (R, X are specified organic group; $n = 0-4$), and the photog. material shows reflection d. at 550 nm ≥ 0.3 . The photog. material shows high-d., low fog and good image stability.

IC ICM G03C007-38

ICS G03C001-83; G03C005-08; G03C007-00; G03C007-20; G03C007-30;
 G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 143151-76-2 152827-98-0

RL: DEV (Device component use); USES (Uses)

(magenta coupler contained in full-color photog. paper)

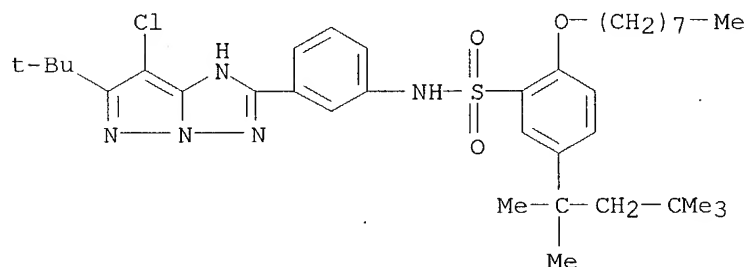
IT 143151-76-2 152827-98-0

RL: DEV (Device component use); USES (Uses)

(magenta coupler contained in full-color photog. paper)

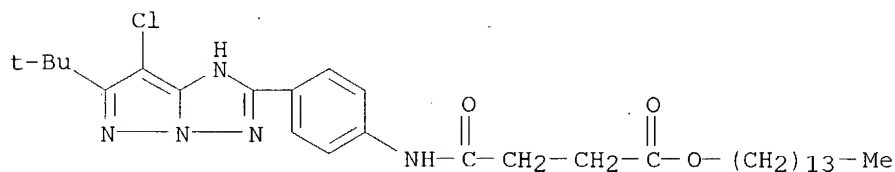
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
 (9CI) (CA INDEX NAME)



RN 152827-98-0 HCA

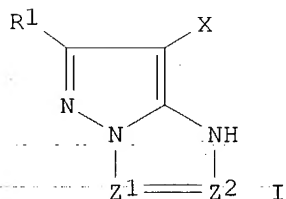
CN Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 18 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:213053 Silver halide color photographic materials with high sensitivity, storage-stability, and suppressed stain formation. Kawagishi, Toshio; Mizukawa, Hiroki; Nakajo, Kyoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07191441 A2 **19950728** Heisei, 116 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-347138 19931227.

GI



AB The title materials contain photog. couplers, I [Z1, Z2 = CR2, N; R1 = 3-8 membered ring, CHR3R4; R2 = substituent; X = H, group capable of leaving upon reaction with oxidized developing agent; R3, R4 = alkyl, cycloalkyl, aryl, heterocyclyl] and A1(TIME)aDI and/or A2(TIME)aDI [A1 = group containing non-diffusing group and capable of releasing (TIME)aDI upon reaction with oxidized aromatic primary amine developing agent; A2 = group containing no non-diffusing group and capable of releasing (TIME)aDI upon reaction with oxidized aromatic primary amine developing agent; TIME = timing group capable of releasing DI upon separation from A1 or A2; DI = development inhibitor; a = 1, 2] in an emulsion layer(s).

IC ICM G03C007-38

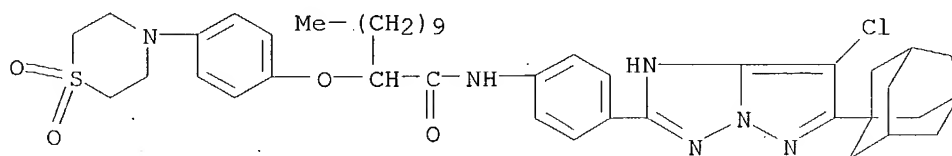
ICS G03C007-00; G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT	121604-72-6	143150-16-7	144291-03-2	150307-10-1	160508-28-1
	160544-71-8	161004-11-1	161004-13-3	161004-14-4	161004-15-5
	161004-17-7	161004-18-8	161004-19-9	161004-21-3	161004-22-4
	161004-24-6	161004-26-8	161069-19-8	161069-33-6	161069-35-8
	161069-37-0	161069-41-6	161098-44-8	161098-47-1	161286-64-2
	162006-25-9	162006-26-0	162006-27-1	162038-93-9	162745-77-9
	162745-78-0	163531-62-2	168180-20-9	168180-21-0	
	168203-52-9	168203-53-0			

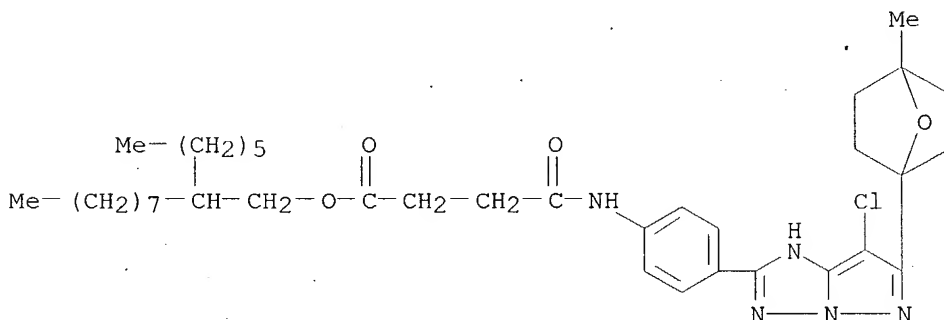
RL: DEV (Device component use); USES (Uses)
(photog. DIR couplers)

thiomorpholinyl)phenoxy]- (9CI) (CA INDEX NAME)



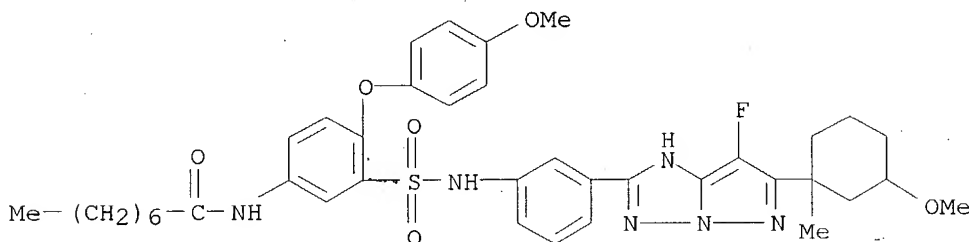
RN 168203-37-0 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(4-methyl-7-oxabicyclo[2.2.1]hept-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 168203-38-1 HCA

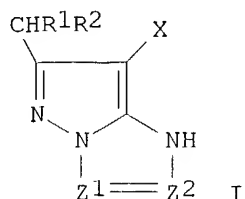
CN Octanamide, N-[3-[[[3-[7-fluoro-6-(3-methoxy-1-methylcyclohexyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(4-methoxyphenoxy)phenyl]- (9CI) (CA INDEX NAME)



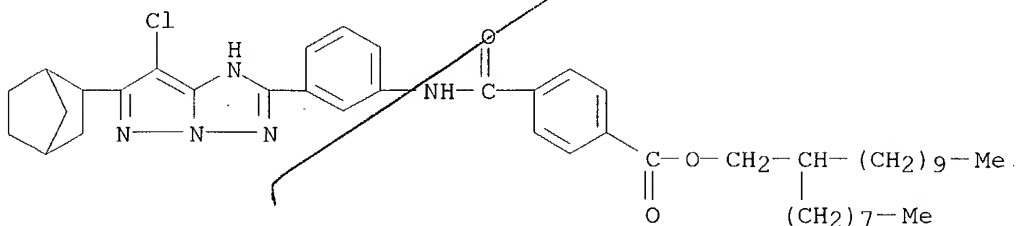
L24 ANSWER 19 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:97780 Silver halide color **photographic** material. Kawagishi, Toshio; Mizukawa, Hiroki; Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07110560 A2 19950425 Heisei, 63 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-277406 19931012.

GI

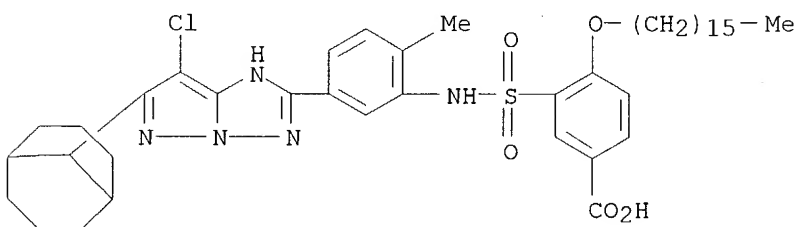


- AB A silver halide color **photog.** material given suppressed yellow-magenta stains and producing lightfast images contains a **coupler** represented by the formula I (Z1, Z2 = CR3 or N but Z1 = Z2 ≠ N where R3 = H or a substituent group and when Z1 = Z2 = CR3, R3 can not be H for both Z1 and Z2; R1 = alkyl which is substituted by a group or branched at the α C atom, cycloalkyl, or aryl; R2 = alkyl, cycloalkyl, or substituted aryl and R1 and R2 together may form a 5-7-membered ring; X = H or a group releasable upon reaction with an oxidized developer).
- IC ICM G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST silver halide color **photog** material; **pyrazoloazole photog coupler**
- IT **Photographic couplers**
(**pyrazoloazoles** as)
- IT **Photographic emulsions**
(color, containing **pyrazoloazole** color formers)
- IT 165255-84-5 165255-85-6 165255-87-8 165255-88-9
165255-89-0 165255-90-3 165255-91-4 165255-92-5
165255-93-6 165255-94-7 165255-95-8 165255-96-9 165255-97-0
165255-98-1
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. coupler**)
- IT 165255-80-1P 165255-81-2P 165255-82-3P 165255-83-4P
RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and reaction in preparing **photog. coupler**)
- IT 165255-86-7P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and use as **photog. coupler**)
- IT 121-51-7 121-69-7, reactions 39739-52-1 116910-31-7 165255-79-8
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(reaction in preparing **photog. coupler**)
- IT 165255-88-9 165255-91-4
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. coupler**)
- RN 165255-88-9 HCA
- CN Benzoic acid, 4-[[[3-(6-bicyclo[2.2.1]hept-2-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]carbonyl]-, 2-octyldodecyl ester (9CI)
(CA INDEX NAME)



RN 165255-91-4 HCA

CN Benzoic acid, 3-[[[5-(6-bicyclo[3.3.1]non-9-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]amino]sulfonyl]-4-(hexadecyloxy)-(9CI) (CA INDEX NAME)



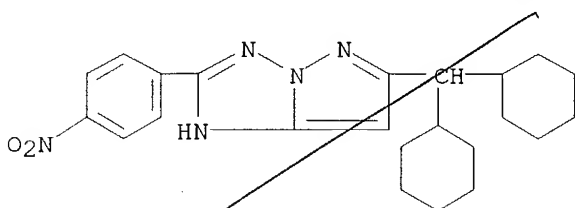
IT 165255-82-3P 165255-83-4P

RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation and reaction in preparing **photog. coupler**)

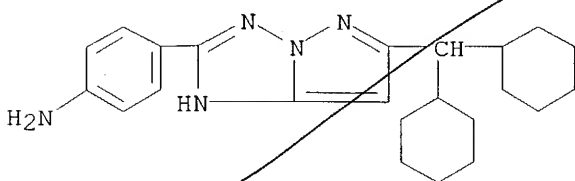
RN 165255-82-3 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(dicyclohexylmethyl)-2-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 165255-83-4 HCA

CN Benzenamine, 4-[6-(dicyclohexylmethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



IT 165255-86-7P

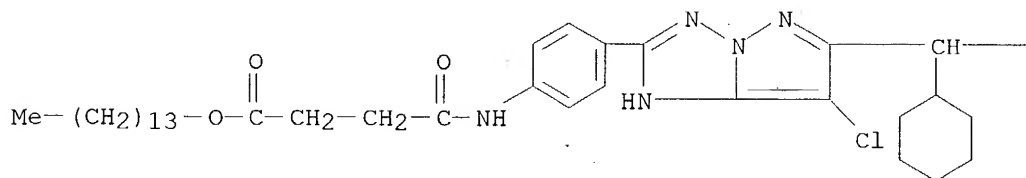
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation and use as **photog. coupler**)

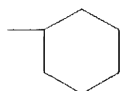
RN 165255-86-7 HCA

CN Butanoic acid, 4-[[4-[7-chloro-6-(dicyclohexylmethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



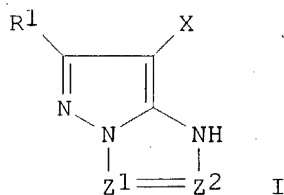
PAGE 1-B



L24 ANSWER 20 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:70233 Silver halide color **photographic** materials. Kawagishi, Toshio; Mizukawa, Hiroki; Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan): Jpn. Kokai Tokkyo Koho JP 07110559 A2 **19950425** Heisei, 63 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-277405 19931012.

GI



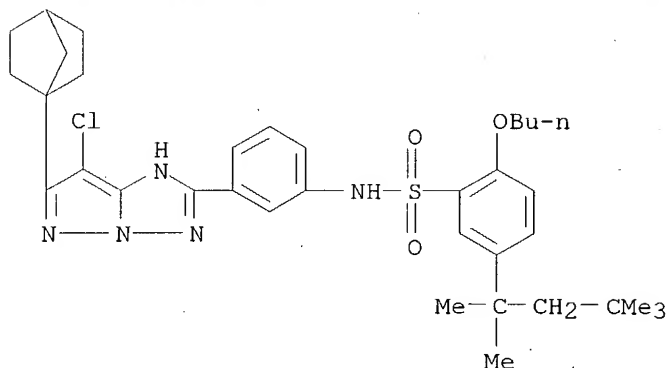
AB The title materials contain **pyrazoloazole couplers**, I [Z1, Z2 = CR2, N; R1 = bicyclo-alkyl, tricyclo-alkyl; R2 = specific organic group; X = H, group leaving upon **coupling** reaction with oxidized developing agent]. The materials showed improved light-resistance, reduced yellow-magenta stains, and stable developability.

IC ICM G03C007-38

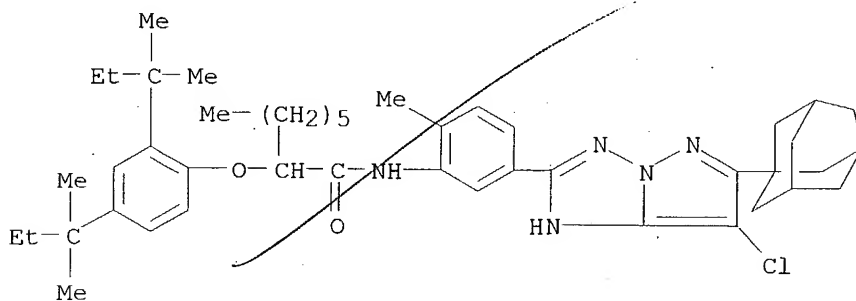
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **photog magenta coupler pyrazoloazole**IT **Photographic emulsions**(color, silver halide color **photog.** materials)IT **Photographic couplers**

(magenta, silver halide color **photog.** materials)
IT 165185-44-4 165185-45-5 **165185-46-6** 165185-47-7
165185-48-8 165185-49-9 165185-50-2 165185-51-3 165185-52-4
165185-53-5 **165185-54-6** **165185-55-7** 165185-56-8
165185-57-9
RL: DEV (Device component use); USES (Uses)
(magenta **couplers** of Ag halide color **photog.** materials)
IT **165185-43-3P**
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(magenta **couplers** of Ag halide color **photog.** materials)
IT 39739-52-1, Methyl 4-nitrobenzimidate hydrochloride 153566-21-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(magenta **couplers** of Ag halide color **photog.** materials from)
IT 165185-59-1P 165185-60-4P **165185-61-5P** **165185-62-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(magenta **couplers** of Ag halide color **photog.** materials from)
IT **165185-46-6** **165185-54-6** **165185-55-7**
RL: DEV (Device component use); USES (Uses)
(magenta **couplers** of Ag halide color **photog.** materials)
RN 165185-46-6 HCA
CN Benzenesulfonamide, N-[3-(6-bicyclo[2.2.1]hept-1-yl-7-chloro-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-butoxy-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

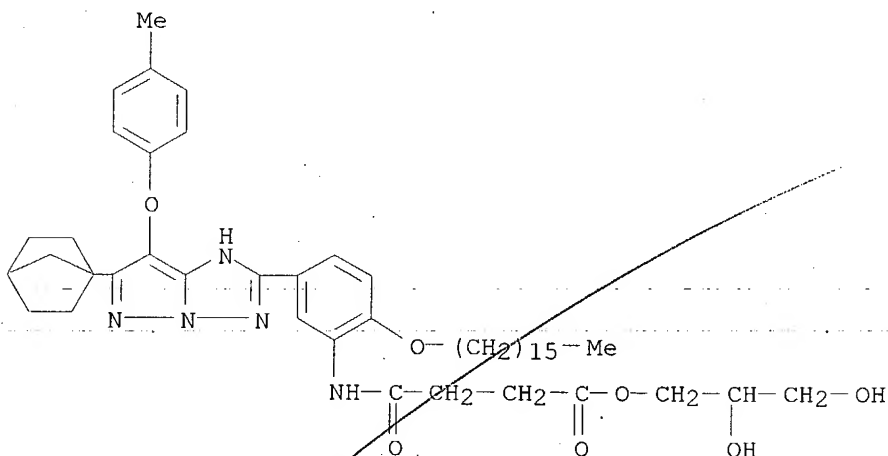


RN 165185-54-6 HCA
CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-(7-chloro-6-tricyclo[3.3.1.1^{3,7}]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]- (9CI) (CA INDEX NAME)



RN 165185-55-7 HCA

CN Butanoic acid, 4-[[5-[6-bicyclo[2.2.1]hept-1-yl-7-(4-methylphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(hexadecyloxy)phenyl]amino]-4-oxo-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

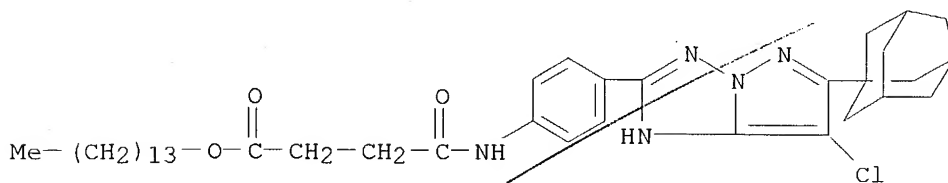


IT 165185-43-3P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(magenta **couplers** of Ag halide color **photog.** materials)

RN 165185-43-3 HCA

CN Butanoic acid, 4-[[4-(7-chloro-6-tricyclo[3.3.1.1^{3,7}]dec-1-yl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]-4-oxo-, tetradecyl ester (9CI) (CA INDEX NAME)



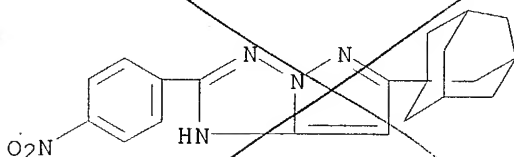
IT 165185-61-5P 165185-62-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

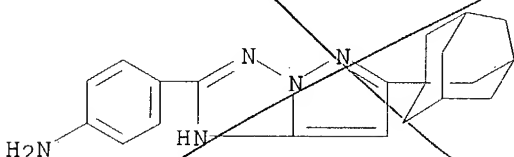
(Reactant or reagent)

(magenta **couplers** of Ag halide color **photog.**
materials from)

RN 165185-61-5 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 2-(4-nitrophenyl)-6-
tricyclo[3.3.1.1^{3,7}]dec-1-yl- (9CI) (CA INDEX NAME)

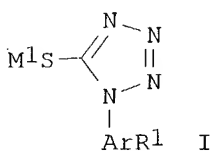
RN 165185-62-6 HCA

CN Benzenamine, 4-(6-tricyclo[3.3.1.1^{3,7}]dec-1-yl-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl)- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 38 HCA COPYRIGHT 2004 ACS on STN

123:22055 Silver halide color photographic materials; color imaging methods
and making of color proof with excellent color reproducibility. Makado,
Satoshi; Ookawachi, Susumu (Konishiroku Photo Ind., Japan). Jpn. Kokai
Tokkyo Koho JP 07084333 A2 **19950331** Heisei, 35 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1994-171166 19940722. PRIORITY: JP
1993-181452 19930722.

GI



AB The title materials contain I (Ar = aromatic; R1 = OR2, NR3SO2R4, CO2M2; R2 =
C≥2 hydrocarbyl; R3 = H, hydrocarbyl; R4 = hydrocarbyl; M1, M2 = H,
alkali metal; alkaline earth metal; ammonium) and ≥90% of AgCl grains
in photog. emulsion layers, and show reflection concns. of ≥0.8 at
450, 550, and 700 nm before development processes.

IC ICM G03C001-34

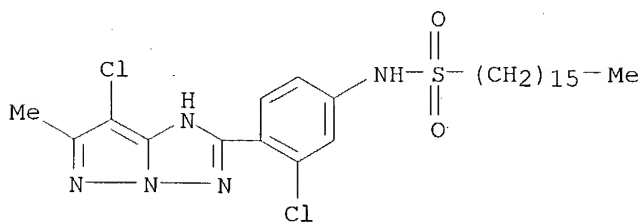
ICS G03C001-035; G03C001-825; G03C007-00; G03C007-38; G03C007-392;
G03C007-407; G03F003-10CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)IT **116313-62-3 151745-04-9** 162925-72-6 162925-73-7162925-75-9 162925-76-0 162925-77-1 163768-68-1 **163768-69-2**

PAGE 1-B

—CH₂—CH₂—OPh

RN 163768-69-2 HCA

CN 1-Hexadecanesulfonamide, N-[3-chloro-4-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 22 OF 38 HCA COPYRIGHT 2004 ACS on STN

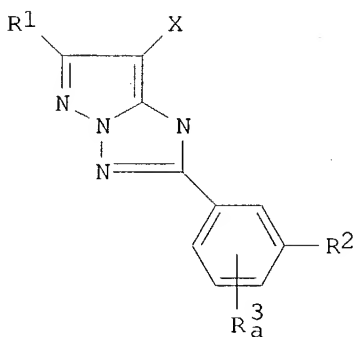
123:22019 Silver halide color **photographic** material containing**pyrazolotriazole** magenta **coupler**. Kawagishi, Toshio;

Motoki, Masushi; Watanabe, Toshuki (Fuji Photo Film Co Ltd, Japan). Jpn.

Kokai Tokkyo Koho JP 07013309 A2 19950117 Heisei, 38 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-178502 19930628.

GI



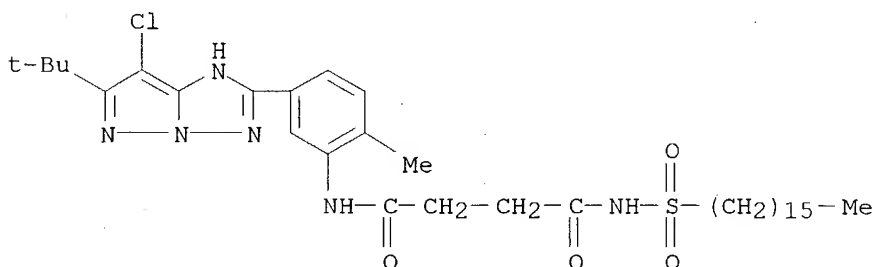
I

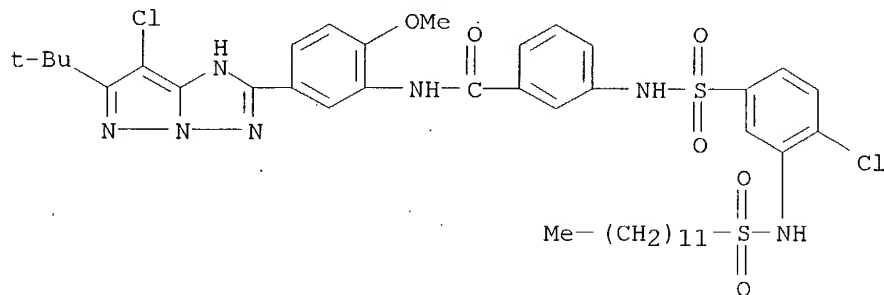
AB The material contains a **pyrazolotriazole** magenta **coupler** I (R1 = tertiary alkyl; R2 = carbonamide, alkoxy-carbonylamino, aryloxy-carbonylamino, ureido, sulfonamide, sulfamoylamino, imide containing ANHBR, NHSO₂-substituted benzene ring group, or CO₂H; A, B = SO₂, CO; R3 = substituent; X = H, leaving group). The **coupler** I may be dispersed with a high-b. p. organic solvent. The material shows good color reproduction and storage stability.

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)
ST pyrazolo triazole magenta photog coupler
IT Photographic couplers
(magenta, Ag halide color photog. material containing
pyrazolotriazole magenta coupler)
IT 163588-12-3 163588-13-4 163588-14-5
163588-15-6 163588-16-7
RL: DEV (Device component use); USES (Uses)
(Ag halide color photog. material containing
pyrazolotriazole magenta coupler)
IT 163588-10-1P 163588-11-2P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
(Preparation); USES (Uses)
(Ag halide color photog. material containing
pyrazolotriazole magenta coupler)
IT 163588-19-0P 163588-22-5P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(chlorination; pyrazolotriazole photog.
coupler manufacture)
IT 78-17-1 122-62-3 30773-85-4 69341-26-0 85117-94-8
RL: NUU (Other use, unclassified); USES (Uses)
(coupler dispersion solvent; Ag halide color photog
material containing pyrazolotriazole magenta coupler)
IT 163588-21-4P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(hydrogenation; pyrazolotriazole photog.
coupler manufacture)
IT 163588-20-3P 163588-23-6P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
RACT (Reactant or reagent)
(pyrazolotriazole photog. coupler manufacture)
IT 97-08-5 128726-26-1 163588-17-8 163588-18-9
163588-24-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrazolotriazole photog. coupler manufacture)
IT 163588-12-3 163588-13-4 163588-14-5
163588-15-6 163588-16-7
RL: DEV (Device component use); USES (Uses)
(Ag halide color photog. material containing
pyrazolotriazole magenta coupler)
RN 163588-12-3 HCA
CN Butanediamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]-2-methylphenyl]-N'-(hexadecylsulfonyl)- (9CI) (CA
INDEX NAME)





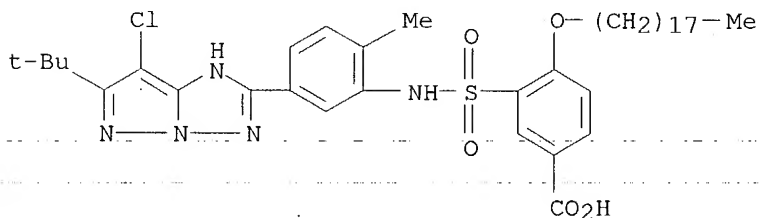
IT 163588-10-1P 163588-11-2P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(Ag halide color **photog.** material containing
pyrazolotriazole magenta **coupler**)

RN 163588-10-1 HCA

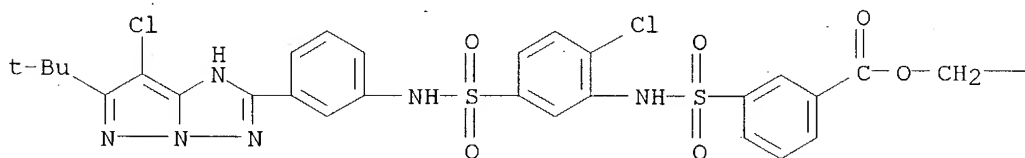
CN Benzoic acid, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-(9CI) (CA INDEX NAME)



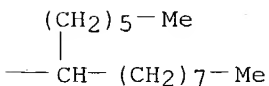
RN 163588-11-2 HCA

CN Benzoic acid, 3-[[[2-chloro-5-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]amino]sulfonyl]-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

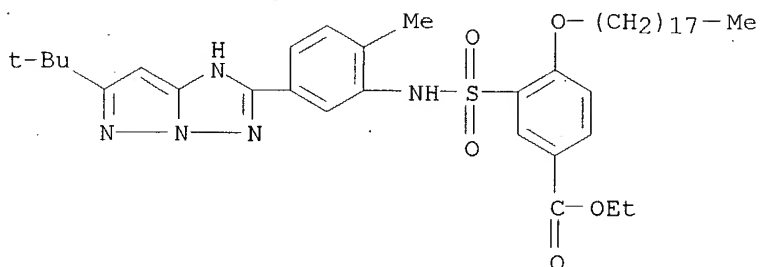


IT 163588-19-0P 163588-22-5P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (chlorination; **pyrazolotriazole photog.**
coupler manufacture)

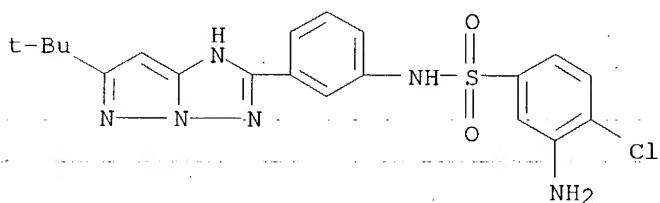
RN 163588-19-0 HCA

CN Benzoic acid, 3-[[[5-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-, ethyl ester (9CI) (CA INDEX NAME)



RN 163588-22-5 HCA

CN Benzenesulfonamide, 3-amino-4-chloro-N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)

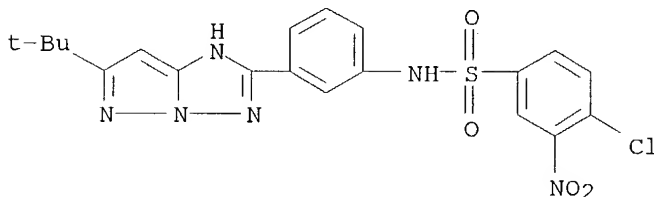


IT 163588-21-4P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (hydrogenation; **pyrazolotriazole photog.**
coupler manufacture)

RN 163588-21-4 HCA

CN Benzenesulfonamide, 4-chloro-N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-3-nitro- (9CI) (CA INDEX NAME)



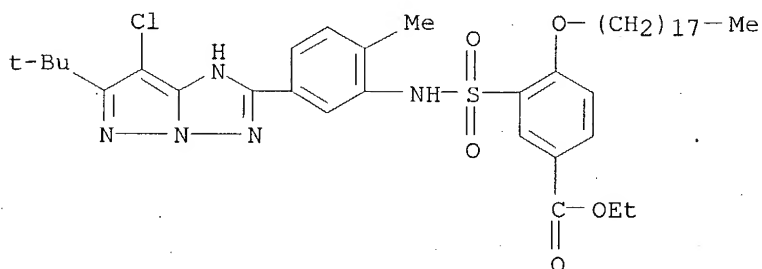
IT 163588-20-3P 163588-23-6P

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (**pyrazolotriazole photog. coupler** manufacture)

RN 163588-20-3 HCA

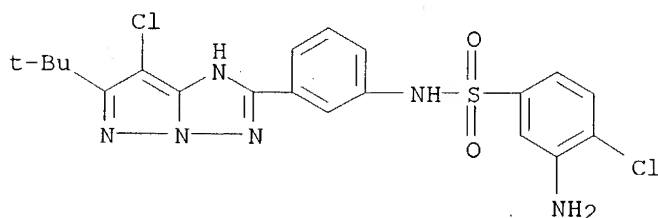
CN Benzoic acid, 3-[[[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b] [1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octadecyloxy)-, ethyl ester (9CI) (CA INDEX NAME)



RN 163588-23-6 HCA

CN Benzenesulfonamide, 3-amino-4-chloro-N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



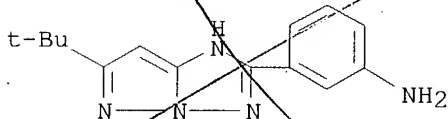
IT 128726-26-1 163588-17-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(pyrazolotriazole photog. coupler manufacture)

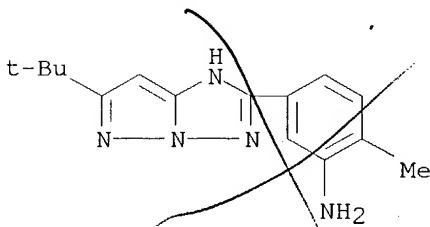
RN 128726-26-1 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)



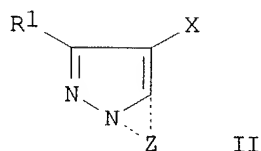
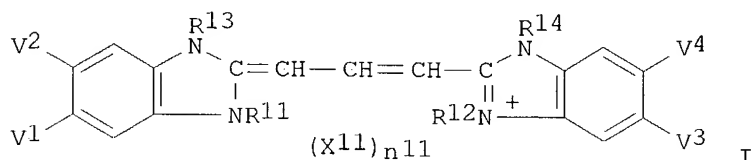
RN 163588-17-8 HCA

CN Benzenamine, 5-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)



.122:302903 Silver halide color photographic material with high sensitivity, reduced fog, and good color reproducibility. Watanabe, Toshuki; Inoe, Akyuki (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07028209 A2 **19950131** Heisei, 71 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-193885 19930712.

GI



AB The title material contains I [V1-4 = H, electron withdrawing group; R11 = (CH2)l(CF2)mH, (CH2)l(CF2)mF; l = 0, 1; m = 1-8; R12-14 = (CH2)p(CF2)qH, (CH2)p(CF2)qF, C≤10 alkyl, alkenyl; p = 0, 1; q = 1-8; X11 = counter ion; n11 = 0, 1] and a magenta coupler(s) II [R1 = H, substituent; Z = non-metal atoms forming 5-membered azo-ring; X = H, group leaving upon a coupling reaction with an oxidized developing agent] in a green-sensitive emulsion layer(s).

IC ICM G03C007-38

ICS G03C001-09; G03C001-18

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 41

IT 126920-89-6 **143151-76-2** 153555-12-5 154042-70-3

155218-29-4 156321-98-1 158600-57-8 163076-18-4 163076-19-5

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. magenta coupler in green-sensitive layer)

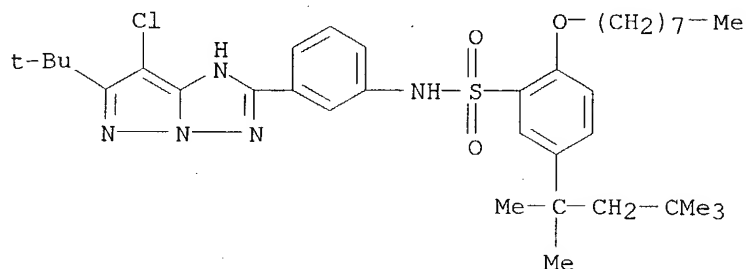
IT **143151-76-2**

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. magenta coupler in green-sensitive layer)

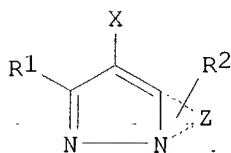
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

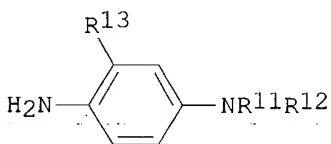


L24 ANSWER 24 OF 38 HCA COPYRIGHT 2004 ACS on STN
 122:302898 Silver halide color **photographic** material and
 image-forming method. Makado, Satoshi; Ookawachi, Susumu (Konishiroku
 Photo Ind, Japan). Jpn. Kokai Tokkyo Koho JP 06347957 A2 **19941222**
 Heisei, 30 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-140637
 19930611.

GI



I



II

AB The material has Ag halide grains containing ≥ 90 mol% AgCl in ≥ 1
 of the emulsion layers, magenta **coupler** I (Z = nonmetal atoms to
 form 5-membered **azole** ring having 3 N atoms; R1 = substituent;
 R2 = (substituted) aryl; X = H, releasing group by **coupling** with
 oxidized developer) in ≥ 1 of the emulsion layers, and the material
 reproduces dot images with main gradation 1.7-2.8 at min. d. (+0.5)-(+1.1)
 of images of each photosensitive layers. The material is developed by the
 developer containing II (R11 = C1-4 alkyl; R12 = C2-4 (branched) alkylene; R13
 = H, C1-4 alkyl). Color proofs are manufactured by using the **photog.**
 material. The material is useful for manufacture color proofs.

IC ICM G03C007-38

ICS G03C001-035; G03C007-413; G03F003-10

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)

ST **pyrazolotriazole** magenta **coupler photog**;
 developer **photog** phenylenediamine deriv; color proof manuf
photog

IT **Photographic** developers
 (photog. developer containing phenylenediamine derivative)

IT **Photographic couplers**
 (**pyrazolotriazole photog** magenta **coupler**)

IT 92-65-9 17625-86-4 107885-42-7

RL: TEM (Technical or engineered material use); USES (Uses)

(photog. developer containing phenylenediamine derivative)

IT 106719-78-2 **116313-62-3 151745-04-9 162925-72-6**

162925-73-7 162925-74-8 162925-75-9 162925-76-0 162925-77-1
162925-78-2 **162925-79-3**

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(pyrazolotriazole photog magenta coupler)

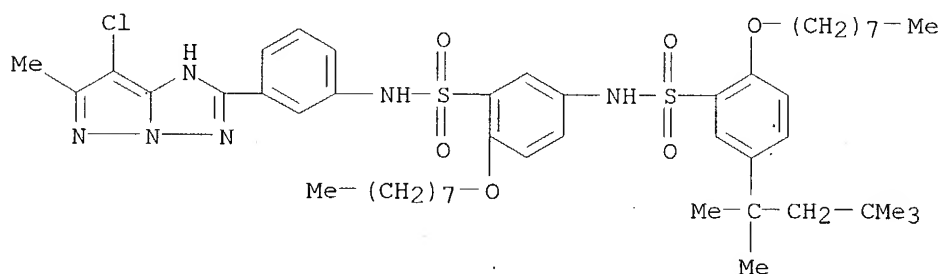
IT **116313-62-3 151745-04-9 162925-79-3**

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(pyrazolotriazole photog magenta coupler)

RN 116313-62-3 HCA

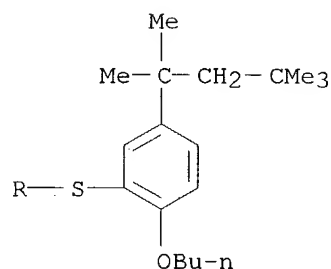
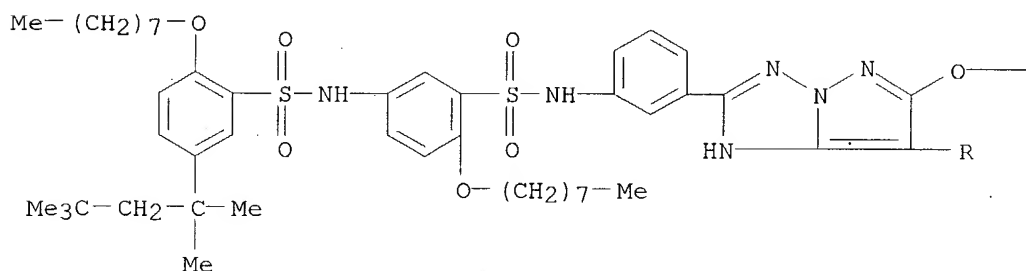
CN Benzenesulfonamide, N-[3-[[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 151745-04-9 HCA

CN Benzenesulfonamide, N-[3-[[[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

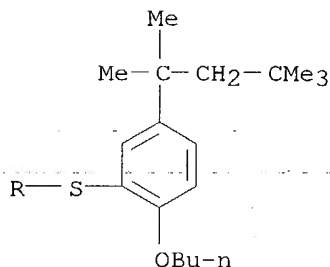
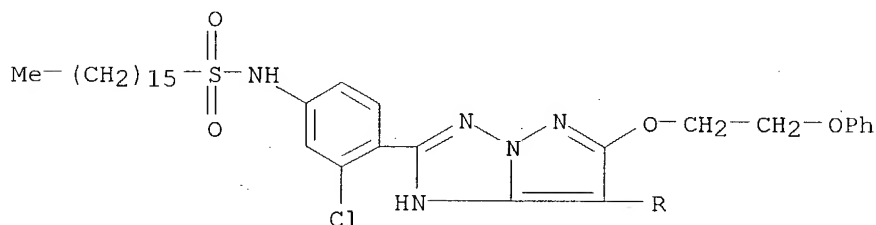


PAGE 1-B

—CH₂—CH₂—OPh

RN 162925-79-3 HCA

CN 1-Hexadecanesulfonamide, N-[4-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-3-chlorophenyl]- (9CI) (CA INDEX NAME)

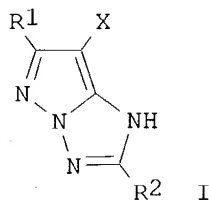


L24 ANSWER 25 OF 38 HCA COPYRIGHT 2004 ACS on STN

122:226663 High-sensitivity silver halide **photographic** material.

Watanabe, Toshiki; Kawagishi, Toshio; Motoki, Masushi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06301173 A2 **19941028**
Heisei, 53 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-110013
19930413.

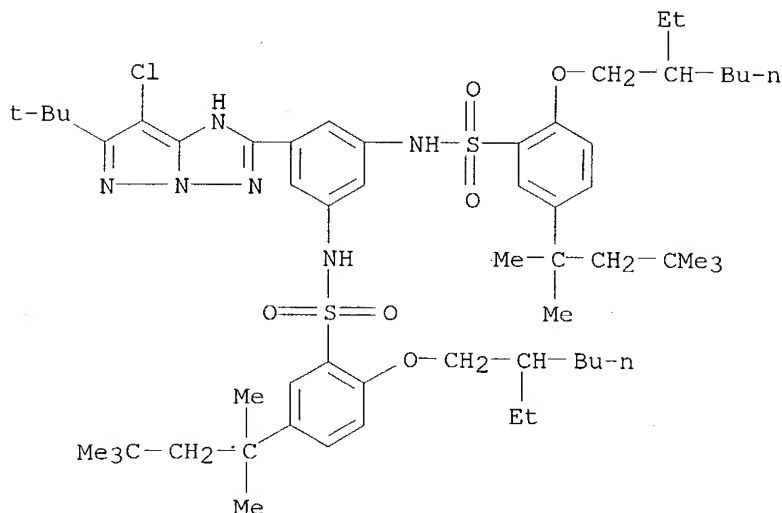
GI



AB In the title **photog.** material ≥ 1 of the Ag halide emulsion layers contains the **coupler** [I; R1 = tertiary alkyl; X

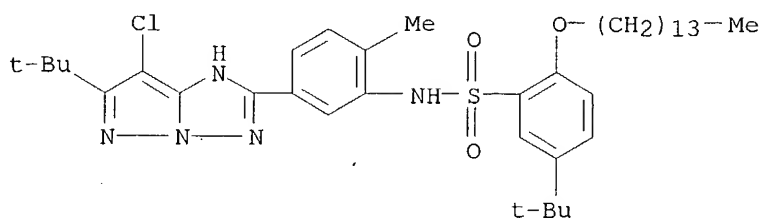
= H, group releasable on reacting with oxidized developing agent; R2 = Ph, CR21R22R23 (R21 = aliphatic, aryl, heterocyclyl, CN, OH, NO2, COOH, alkoxy, aryloxy, heterocycloxy, silyloxy, acyloxy, etc., R22 = H, R21; R23 = aliphatic, aryl)] and tabular Ag halide grains with aspect ratio ≥ 3 .

- IC ICM G03C007-38
ICS G03C001-035; G03C007-392
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST high sensitivity **photog** material **coupler**;
pyrazolotriazole magenta **coupler**
- IT **Photographic emulsions**
Photographic films
(high-sensitivity)
- IT **Photographic couplers**
(magenta, for high-sensitivity **photog.** emulsions)
- IT 119-47-1 4081-14-5 58331-03-6 154201-12-4 162247-84-9
RL: DEV (Device component use); USES (Uses)
(for high-sensitivity **photog.** emulsions)
- IT **162247-78-1 162247-79-2 162247-80-5**
162247-81-6 162247-82-7 162247-83-8
RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; for high-sensitivity **photog.** emulsions)
- IT **162247-77-0**
RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; high-sensitivity **photog.** film containing)
- IT **162247-78-1 162247-79-2 162247-80-5**
RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; for high-sensitivity **photog.** emulsions)
- RN 162247-78-1 HCA
- CN Benzenesulfonamide, N,N'-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-1,3-phenylene]bis[2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



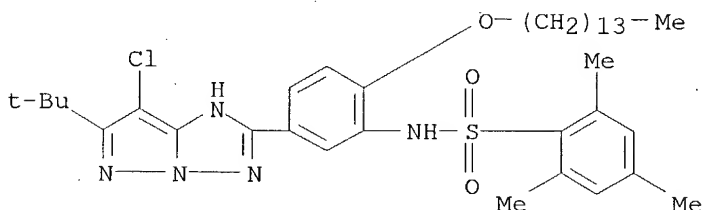
- RN 162247-79-2 HCA
- CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-

b][1,2,4]triazol-2-yl]-2-methylphenyl]-5-(1,1-dimethylethyl)-2-(tetradecyloxy)- (9CI) (CA INDEX NAME)



RN 162247-80-5 HCA

CN Benzenesulfonamide, N-[5-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-(tetradecyloxy)phenyl]-2,4,6-trimethyl- (9CI)
(CA INDEX NAME)

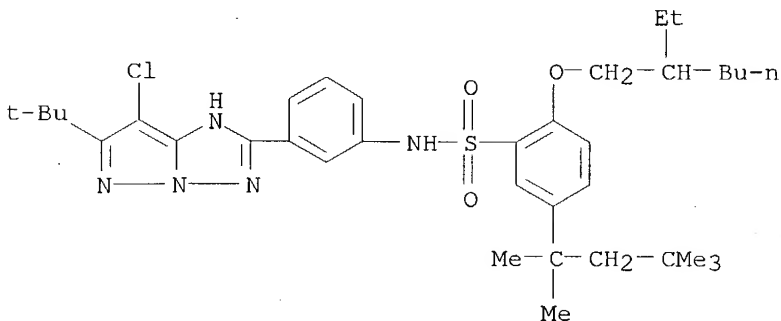


IT 162247-77-0

RL: DEV (Device component use); USES (Uses)
(magenta **coupler**; high-sensitivity **photog.** film containing)

RN 162247-77-0 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



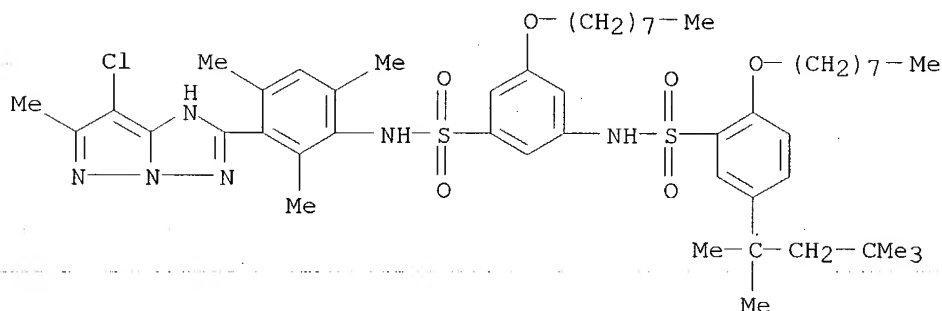
L24 ANSWER 26 OF 38 HCA COPYRIGHT 2004 ACS on STN

120:311342 Silver halide color photographic material. Haijima, Akimitsu; Yoshioka, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). U.S. US 5258271 A 19931102, 86 pp. (English). CODEN: USXXAM. APPLICATION: US 1992-945928 19920917. PRIORITY: JP 1991-265329 19910917.

AB There is disclosed a silver halide color photog. material having a photosensitive silver halide emulsion layer on a support, which comprises, in said photosensitive silver halide emulsion layer, a coupler selected

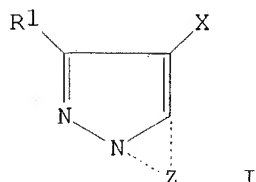
from the group consisting of yellow dye-forming couplers and a quenching coupler selected from the group consisting of cyan dye-forming couplers and magenta dye-forming couplers or a quenching dye obtained by a coupling reaction of above couplers with the oxidized product of a photog. developing agent.

IC ICM G03C001-46
 NCL 430503000
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 31188-91-7 131169-88-5 155255-10-0 **155255-11-1**
 RL: USES (Uses)
 (quenching photog. magenta coupler)
 IT **155255-11-1**
 RL: USES (Uses)
 (quenching photog. magenta coupler)
 RN 155255-11-1 HCA
 CN Benzenesulfonamide, N-[3-[[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]amino]sulfonyl]-5-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



L24 ANSWER 27 OF 38 HCA COPYRIGHT 2004 ACS on STN
 120:257296 Silver halide color **photographic** material with excellent graininess and color reproducibility and method for forming image.
 Sakagami, Megumi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05100382 A2 **19930423** Heisei, 93 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-289537 19911009.

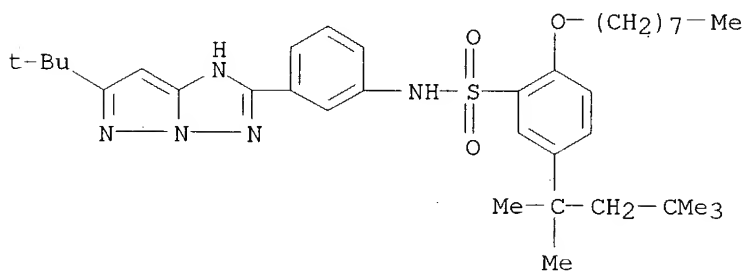
GI



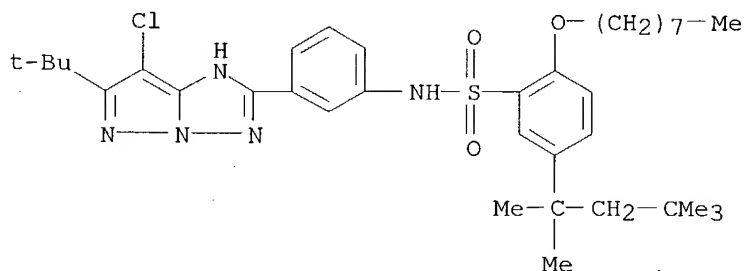
AB In a Ag halide color **photog.** material having ≥ 2 green-sensitive Ag halide emulsion layers with different sensitivities on

a support, the green-sensitivity Ag halide emulsion layer with the lower sensitivity comprises ≥ 1 **coupler I** [R1 = H, substituent; Z = nonmetallic at, group forming a 5-membered **azole** ring containing 2-4 Ns; the **azole** ring may contain a substituent (including condensation ring); X = moiety released during **coupling** reaction with an oxidized product of a development agent, but not H] and the green-sensitivity Ag halide emulsion layer having the higher sensitivity comprises ≥ 1 **coupler I** [X = H; R1 = same as above]. The title method carries out color development after black-and-white development, in which pH of the color developer is ≥ 11 .

IC ICM G03C007-38
ICS G03C005-50; G03C007-20; G03C007-407
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST silver halide color **photog** material; **azole** deriv
magenta **coupler**
IT **Photographic** development
(color, pH of solution in)
IT **Photographic couplers**
(magenta, **azole** derivative)
IT 104660-32-4 128287-61-6 **128747-53-5** 137605-49-3
143151-76-2 146456-99-7 151070-14-3 154037-61-3
154042-70-3 **154252-80-9** 154252-81-0 154252-82-1
154252-83-2 154252-84-3 154252-85-4 154252-86-5
RL: USES (Uses)
(silver halide color **photog.** material containing)
IT **128747-53-5 143151-76-2 154252-80-9**
154252-83-2
RL: USES (Uses)
(silver halide color **photog.** material containing)
RN **128747-53-5 HCA**
CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)

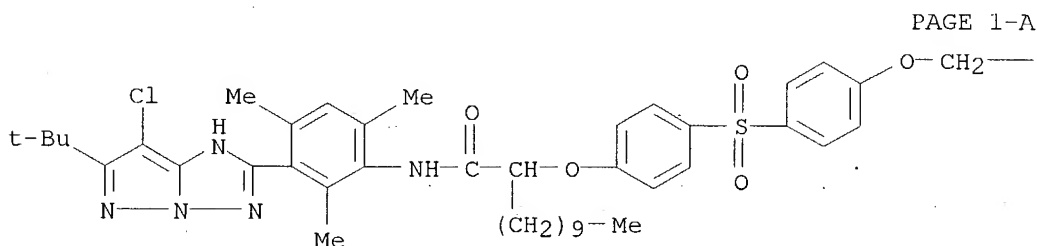


RN 143151-76-2 HCA
CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



RN 154252-80-9 HCA

CN Dodecanamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2,4,6-trimethylphenyl]-2-[4-[[4-(phenylmethoxy)phenyl]sulfonyl]phenoxy]- (9CI) (CA INDEX NAME)



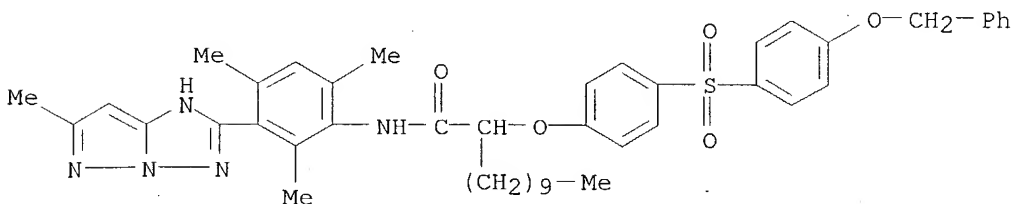
PAGE 1-A

PAGE 1-B

— Ph

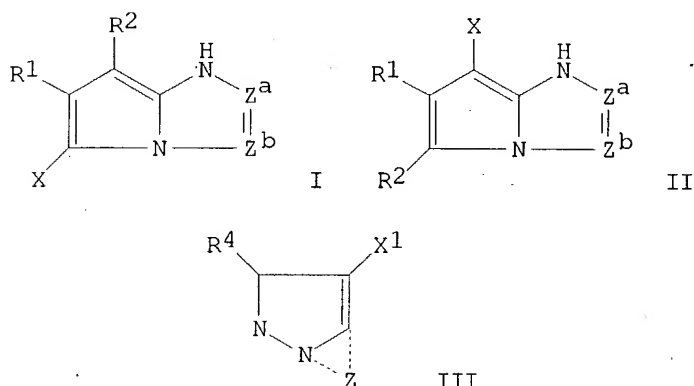
RN 154252-83-2 HCA

CN Dodecanamide, 2-[4-[[4-(phenylmethoxy)phenyl]sulfonyl]phenoxy]-N-[2,4,6-trimethyl-3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 28 OF 38 HCA COPYRIGHT 2004 ACS on STN
 120:148778 Silver halide color **photographic** material. Naruse,
 Hideaki; Suzuki, Makoto (Fuji Photo Film Co., Ltd., Japan). Eur. Pat.
 Appl. EP 544322 A1 19930602, 88 pp. DESIGNATED STATES: R: DE,
 FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120295
 19921127. PRIORITY: JP 1991-335905 19911127.

GI



AB A Ag halide color **photog.** material capable of providing a dye image having excellent color reproducibility, less color fading, and good balance of cyan, magenta, and yellow colors comprises a support and provided thereon cyan **coupler**-, magenta **coupler**-, and yellow **coupler**-containing Ag halide emulsion layers, wherein the cyan **coupler**-containing Ag halide emulsion layer contains ≥ 1 cyan **coupler** selected from the group of compds. represented by the formulas I and II (Za, Zb = CR³ or N, provided that one of Za and Zb is N and the other is CR³; R¹, R² = an electron-attracting group having a Hammett's substituent constant σ of ≥ 0.2 and the sum of the σ values of R¹ and R² is ≥ 0.65 ; R³ = H or a substituent group; X = H or a group capable of splitting off upon reaction with an oxidized aromatic primary amine color developing agent) which may be a part of a polymer or copolymer and the magenta **coupler**-containing Ag halide emulsion layer contains a magenta **coupler** represented by the formula III (R⁴ = H or a substituent group; Z = a group of nonmetallic atoms necessary to form a 5-membered **azole** ring containing 2-3 N atoms; X¹ = H or a group capable of splitting off upon reaction with an oxidized aromatic primary amine color developing agent).

IC ICM G03C007-32

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color **photog** material; **pyrrolotriazole**
cyan **coupler** color **photog**; **pyrazoloazole**
magenta **coupler** color **photog**

IT **Photographic emulsions**

(for forming dye images having excellent color reproducibility and reduced color fading)

IT **Photographic couplers**

(cyan, **pyrrolotriazoles** as)

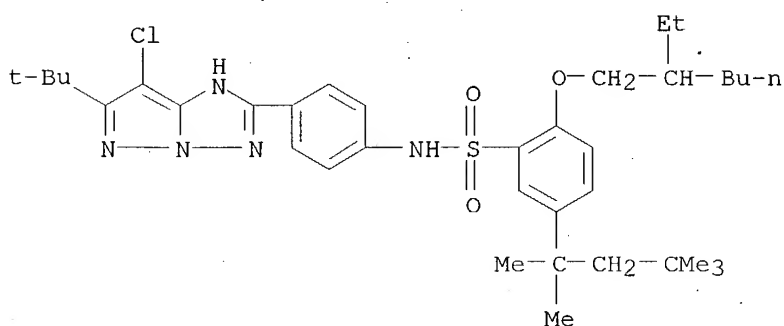
IT **Photographic couplers**

(magenta, **pyrazoloazoles** as)

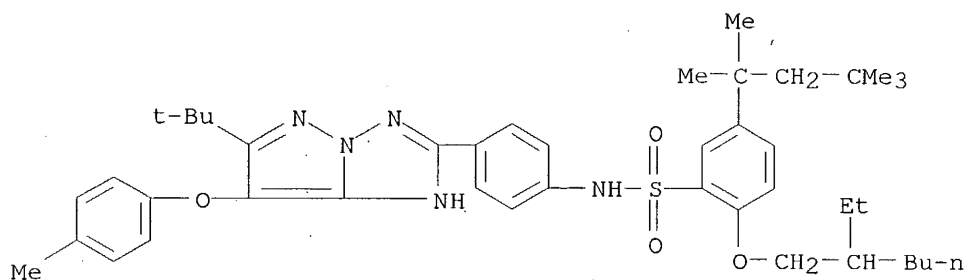
IT	143324-24-7	143779-35-5	143779-39-9	143795-04-4	150982-36-8
	150982-37-9	151019-64-6	151019-65-7	151019-66-8	152793-66-3
	152793-67-4	152793-68-5	152793-69-6	152793-70-9	152793-71-0
	152793-72-1	152793-73-2	152793-74-3	152793-75-4	

RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** cyan **coupler**, for forming dye images)

- having excellent color reproducibility and reduced color fading)
- IT 111244-17-8 124351-77-5 133000-75-6 **149311-40-0**
149311-41-1 149311-42-2 151288-35-6
152793-76-5 152793-77-6 152793-78-7
152793-79-8 152793-80-1 152793-81-2
152793-82-3 152793-83-4 152793-84-5 152793-85-6
152793-86-7 152793-87-8 152793-88-9 152793-89-0 152793-90-3
152793-91-4
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. magenta coupler**, for forming dye images
having excellent color reproducibility and reduced color fading)
- IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
150982-33-5P 150982-34-6P 152586-70-4P 152586-72-6P 152586-73-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction of, in preparing **photog. cyan**
coupler)
- IT 143324-37-2P 143779-40-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as **photog. cyan coupler** for
forming dye images having excellent color reproducibility and reduced
color fading)
- IT 70-23-5 99067-72-8 109871-03-6 125666-25-3, 1H-Pyrrole-3,4-
dicarbonitrile 140859-54-7 152586-69-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparing **photog. cyan couplers**)
- IT **149311-40-0 149311-41-1 149311-42-2**
152793-76-5 152793-77-6 152793-78-7
152793-79-8 152793-80-1 152793-81-2
152793-82-3
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. magenta coupler**, for forming dye images
having excellent color reproducibility and reduced color fading)
- RN 149311-40-0 HCA
CN Benzenesulfonamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-
tetramethylbutyl)- (9CI) (CA INDEX NAME)



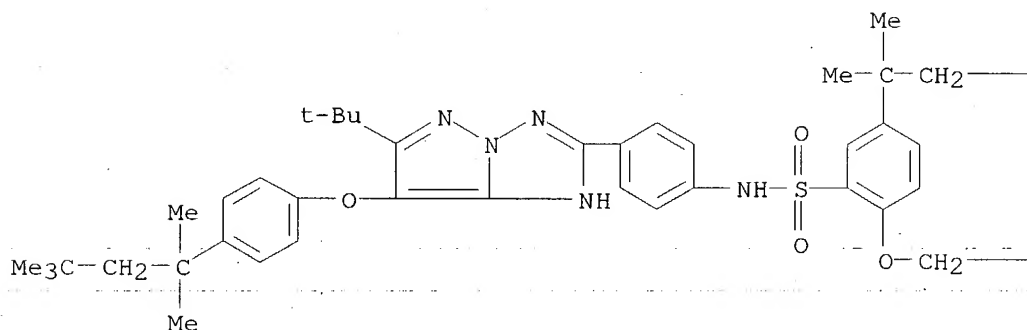
- RN 149311-41-1 HCA
CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-(4-methylphenoxy)-1H-
pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-
(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 149311-42-2 HCA

CN Benzenesulfonamide, N-[4-[6-(1,1-dimethylethyl)-7-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[(2-ethylhexyl)oxy]-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



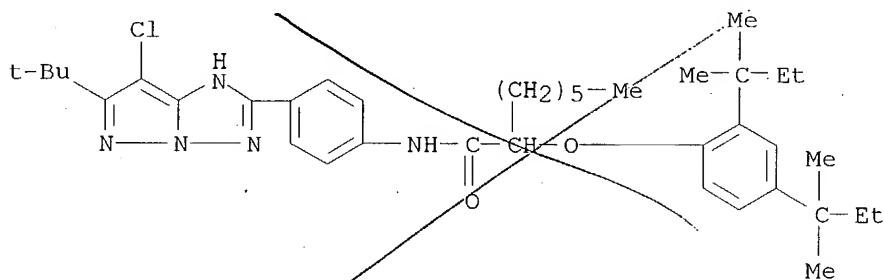
PAGE 1-B

— CMe₃

Et
|
— CH— Bu-n

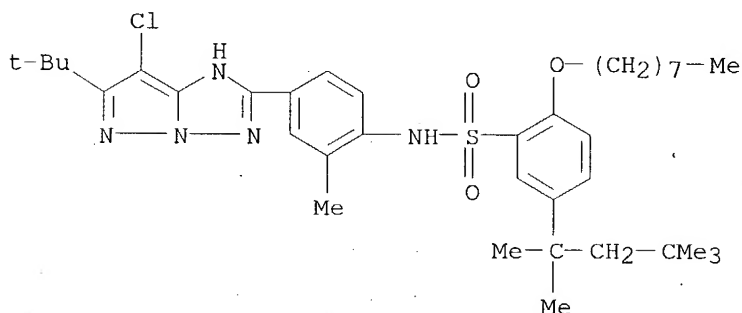
RN 152793-76-5 HCA

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



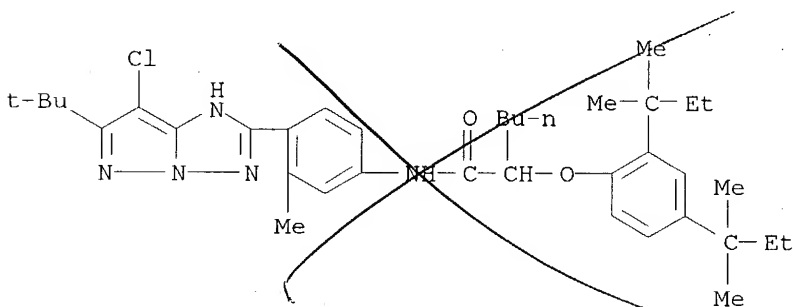
RN 152793-77-6 HCA

CN Benzenesulfonamide, N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2-methylphenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



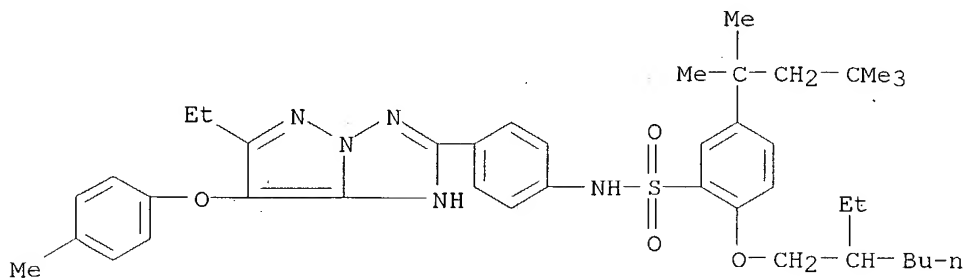
RN 152793-78-7 HCA

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-3-methylphenyl]- (9CI) (CA INDEX NAME)



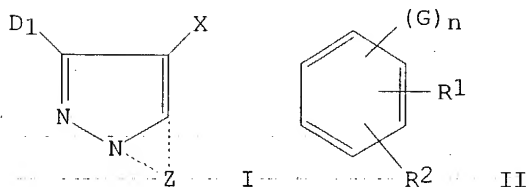
RN 152793-79-8 HCA

CN Hexadecanamide, N-[3-[[[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-2,4,6-trimethylphenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 29 OF 38 HCA COPYRIGHT 2004 ACS on STN
 120:120559 Silver halide color **photographic** material. Nagaoka,
 Satoshi; Yamanouchi, Junichi (Fuji Photo Film Co., Ltd., Japan). Jpn.
 Kokai Tokkyo Koho JP 04289853 A2 19921014 Heisei, 67 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-77111 19910318.

GI



AB The title Ag halide color **photog.** material comprises a magenta
coupler I [D1 = H, substituent; Z = 5-membered **azole**
 ring containing 2-3 N; the **azole** ring may contain a substituent; X =
 H, moiety released upon **coupling** reaction with an oxidized
 developing agent] and a polymer obtained via condensation reaction of II
 [G = hydroxy, carboxyamido, sulfonamido, moiety forming OH upon
 hydrolysis; n = ≥2] with R3R4C=O and CR3R4R5R6 [R1,2 = H,
 substituent; R3,4 = H, alkyl, aryl, aralkyl, heterocyclyl, acyl, carboxy,
 formyl; R5,6 = alkyl; and R5 and R6 may form a ring] in the presence of an
 acid or an alkaline catalyst.

IC ICM G03C007-38

ICS G03C007-392

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)

ST **pyrazoloazole** magenta **coupler**; silver halide color
photog material

IT **Photographic couplers**
 (magenta, **pyrazoloazoles** as)

IT 98120-97-9 98155-25-0 105343-19-9 110884-43-0 116313-27-0

124079-66-9 126920-89-6 131169-88-5 141741-54-0

143151-76-2 143151-79-5 144337-85-9

RL: TEM (Technical or engineered material use); USES (Uses)

(**photog.** magenta **coupler**)

IT 26353-95-7 38333-84-5 129471-91-6 132722-66-8 132722-67-9

133716-64-0 133716-65-1 133716-66-2 143155-28-6 148307-36-2
 148307-37-3 148307-40-8 148721-73-7 148721-74-8 148721-75-9
 148721-76-0 148721-77-1 148721-78-2 148745-66-8

RL: USES (Uses)

(silver halide color photog. materials containing)

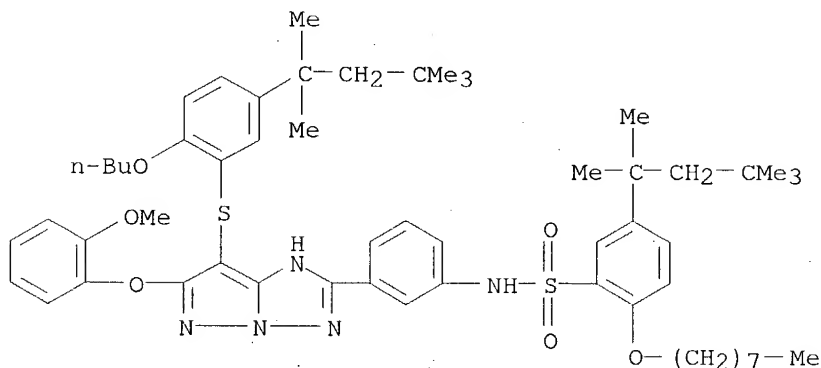
IT 124079-66-9 143151-76-2 144337-85-9

RL: TEM (Technical or engineered material use); USES (Uses)

(photog. magenta coupler)

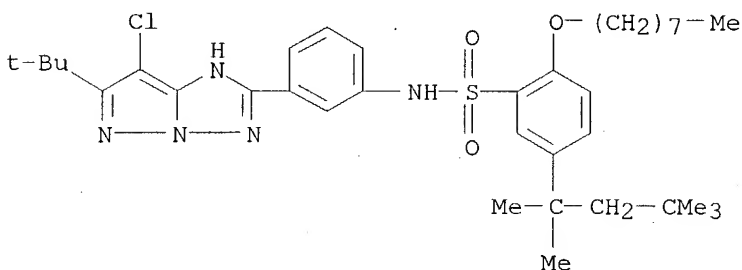
RN 124079-66-9 HCA

CN Benzenesulfonamide, N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



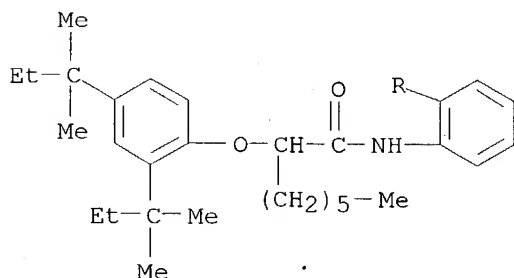
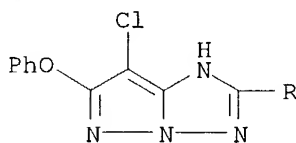
RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



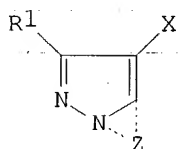
RN 144337-85-9 HCA

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-(7-chloro-6-phenoxy-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L24 ANSWER 30 OF 38 HCA COPYRIGHT 2004 ACS on STN
 118:112907 Silver halide color **photographic** material. Urata,
 Yukihide (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
 04248548 A2 **19920904** Heisei, 43 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1991-33457 19910204.

GI



I

AB In the title material comprising blue-, green-, and red-sensitive silver
 halide emulsion layers, at least one of the silver halide emulsion layers
 contains one or more **photog. couplers** represented by
 I. For I, R1 = H, a substituent group; Z = nonmetallic atoms for forming
 a (substituted) 5-membered **azole** ring containing 2 or 3 N atoms; X =
 H, a group to be released upon **coupling** reaction with an
 oxidized developing agent. Silver halide emulsions in the title material
 are chemical sensitized in the presence of $\geq 10^{-4}$ mol Pd compound/mol
 silver halide. The title material gives excellent color reproduction
 IC ICM G03C007-38
 ICS G03C001-09
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 ST silver halide color **photog** material; **pyrazolotriazole**
photog coupler
 IT **Photographic couplers**
 (pyrazolotriazole derivs. as)
 IT 13820-40-1
 RL: USES (Uses)
 (chemical sensitization of silver halide **photog.** emulsions in
 presence of)

IT 119179-28-1 125739-11-9 130287-07-9 141741-54-0 **143151-76-2**143151-77-3 **145601-05-4** 145601-06-5 145601-07-6

RL: TEM (Technical or engineered material use); USES (Uses)

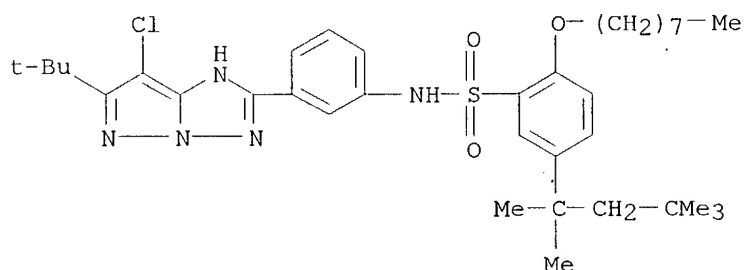
(photog. coupler)

IT **143151-76-2 145601-05-4**

RL: TEM (Technical or engineered material use); USES (Uses)

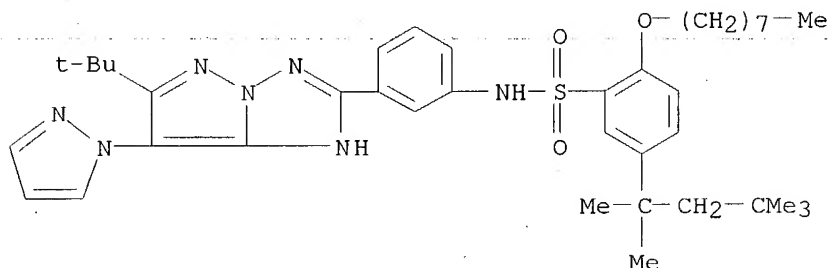
(photog. coupler)

RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)

RN 145601-05-4 HCA

CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-7-(1H-pyrazol-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



L24 ANSWER 31 OF 38 HCA COPYRIGHT 2004 ACS on STN

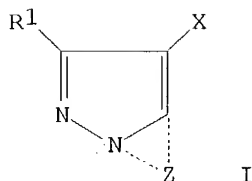
118:90662 Silver halide color photosensitive material for stereophotography.

Shiba, Keisuke; Sato, Tadahisa (Fuji Photo Film Co., Ltd., Japan). Jpn.

Kokai Tokkyo Koho JP 03278054 A2 19911209 Heisei, 57 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1990-76972 19900328.

GI



AB The title material (which comprises a support having thereon magenta color-forming Ag halide photosensitive layers, cyan color-forming Ag halide photosensitive layers, and yellow color-forming Ag halide photosensitive layers) contains a **coupler** represented by general structure I [R1 = H, a substituent; Z = nonmetallic atoms for forming a 5-membered **azole** ring which contains 2 or 3 N; the said **azole** ring may have substituents (which may form a fused ring); X = H, a group to be released upon **coupling** reaction with an oxidized color developing agent]. Also claimed is a method for color stereophotog. image formation by the use of the title material. The title material gives high-quality images.

IC ICM G03C007-38

ICS G03C007-14; G03C007-30; G03C007-392; G03C009-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color stereophotog material; **pyrazolotriazole coupler** color stereophotog material

IT **Photographic couplers**

(magenta, **pyrazolotriazoles** as)

IT **Photography**

(stereoscopic, color, silver halide photosensitive materials for)

IT 98120-97-9 98155-25-0 104660-32-4 104660-33-5 105343-19-9

110729-29-8 110884-43-0 115007-10-8 116313-27-0 119311-63-6

124079-66-9 124644-67-3 **126512-93-4** 126920-89-6

131169-88-5 **131851-81-5** **143151-76-2** 143284-48-4

RL: USES (Uses)

(magenta **coupler**, in color stereophotog. material)

IT **124079-66-9** **126512-93-4** **131851-81-5**

143151-76-2

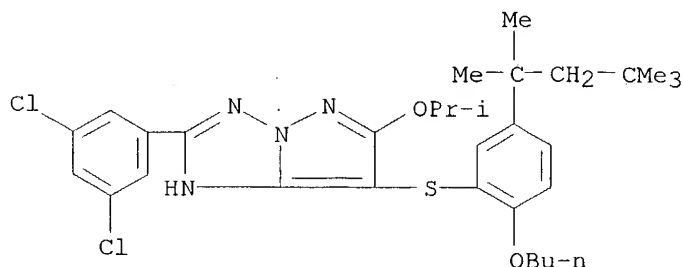
RL: USES (Uses)

(magenta **coupler**, in color stereophotog. material)

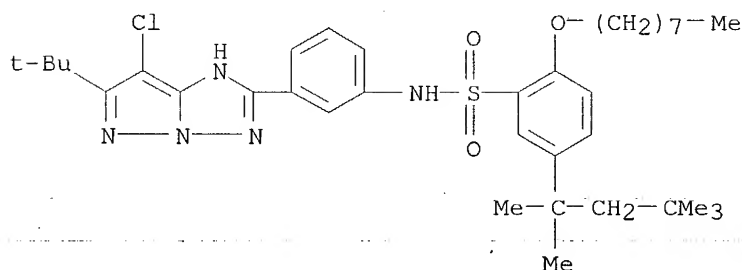
RN 124079-66-9 HCA

CN Benzenesulfonamide, N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

RN 131851-81-5 HCA
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,5-dichlorophenyl)-6-(1-methylethoxy)-(9CI) (CA INDEX NAME)



RN 143151-76-2 HCA
 CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



L24 ANSWER 32 OF 38 HCA COPYRIGHT 2004 ACS on STN
 117:160769 Silver halide color **photographic** material containing yellow and magenta **couplers**. Sakurazawa, Mamoru; Kobayashi, Hidetoshi (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 486965 A1 19920527, 95 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1991-119527 19911115. PRIORITY: JP 1990-312406 19901117.

GI For diagram(s), see printed CA Issue.

AB A Ag halide color **photog.** material which has excellent color reproduction and good stability during processing comprises, on a support, at least one each of blue-, green-, and red-sensitive Ag halide emulsion layers, wherein ≥ 1 of acylacetamide derivative yellow **couplers** having the acyl group represented by the formula I (R1 = a monovalent group; Q1 = a group of atoms which, together with C, form a 3- to 5-membered hydrocarbyl ring or a 3- to 5-membered heterocyclic ring which has within the ring ≥ 1 heteroatom selected from the group consisting of N, O, S, and P, with the proviso that R1 is not a H atom, is not linked to Q, and does not form a ring) is included in the blue-sensitive Ag halide emulsion layers and ≥ 1 of magenta **couplers** represented by the formula II (R2 = H or a substituent group; R3 = H or a **coupling-off** group; Q2 = a group of atoms necessary to form a 5-membered **azole** ring containing 2-4 N atoms) is included in the green-sensitive Ag halide emulsion layers.

IC ICM G03C007-32
ICS G03C007-36

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color **photog** material; acylacetamide deriv yellow
photog coupler; **pyrazoloazole** magenta
photog coupler

IT **Photographic emulsions**
(color, containing acylacetamide derivative yellow dye formers and
pyrazoloazole magenta dye formers for improved color reproduction)

IT **Photographic couplers**
(magenta, **pyrazoloazole**, used in conjunction with
acylacetamide derivative **couplers** for improved color reproduction)

IT **Photographic couplers**
(yellow, acylacetamide derivative, used in conjunction with
pyrazoloazole couplers for improved color reproduction)

IT 104660-33-5 124644-67-3 **126512-93-4** 126920-89-6
141721-28-0 **143151-76-2** 143284-47-3 143284-48-4
143284-49-5
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. magenta coupler**, used in conjunction with
acylacetamide derivative yellow **couplers** for improved color
reproduction)

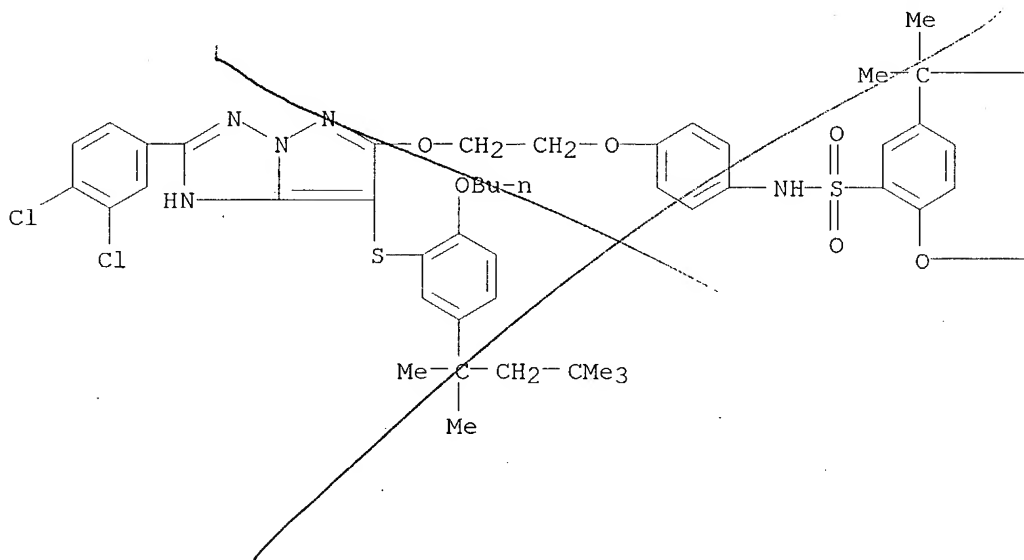
IT 142257-46-3 142257-49-6 142257-57-6 143182-60-9 143284-44-0
143284-45-1 143284-46-2
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. yellow coupler**, used in conjunction with
pyrazoloazole magenta **couplers** for improved color
reproduction)

IT **126512-93-4 143151-76-2**
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog. magenta coupler**, used in conjunction with
acylacetamide derivative yellow **couplers** for improved color
reproduction)

RN 126512-93-4 HCA

CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-
tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-
b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-
tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

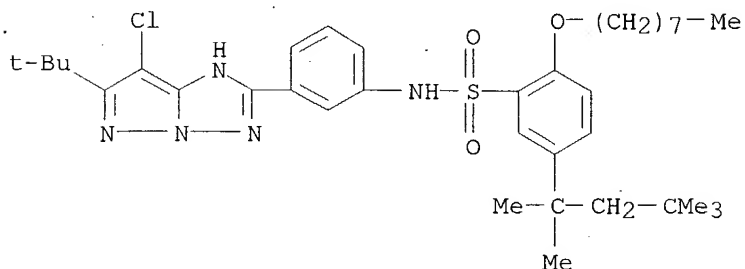


PAGE 1-B

—CH₂—CMe₃—(CH₂)₇—Me

RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)

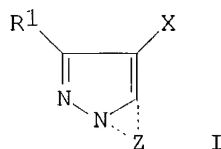


L24 ANSWER 33 OF 38 HCA COPYRIGHT 2004 ACS on STN

117:121428 Silver halide color **photographic** material. Usui, Hideo;
Sakagami, Megumi (Fuji Shashin Film K. K., Japan). Jpn. Kokai Tokkyo Koho
JP 04080751 A2 19920313 Heisei, 41 pp. (Japanese). CODEN:

JKXXAF. APPLICATION: JP 1990-194642 19900723.

GI



AB The title material which comprises a support having thereon ≥ 1 red-, green-, and blue-sensitive Ag halide emulsion layers contains ≥ 1 magenta **coupler** represented by general structure I [R1 = H, a substituent; Z = nonmetallic atoms for forming a 5-membered **azole** ring having 2 to 3 N atoms; the **azole** ring may have substituents or fused rings; X = H, a group to be released upon **coupling** reaction with an oxidized developing agent] and ≥ 1 anionic surfactant. The title material gives excellent color reproduction and sharp images.

IC ICM G03C007-38

ICS G03C007-392

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver halide color **photog** material; excellent color reprodn
photog material; sharp image **photog** material;
pyrazolotriazole coupler photog material;
 surfactant color **photog** material

IT **Photographic couplers**

(magenta, **pyrazolotriazole** derivs. as)

IT 98155-25-0 104660-33-5 105343-19-9 **126512-93-4** 137581-79-4
 140474-24-4 141721-28-0 141741-54-0 **143151-76-2**
 143151-77-3 143151-78-4 143151-79-5

RL: TEM (Technical or engineered material use); USES (Uses)

(**photog. magenta coupler**)

IT 2673-22-5 114306-89-7 138088-90-1 138594-64-6 143151-75-1

RL: USES (Uses)

(silver halide color **photog.** materials containing)

IT **126512-93-4 143151-76-2**

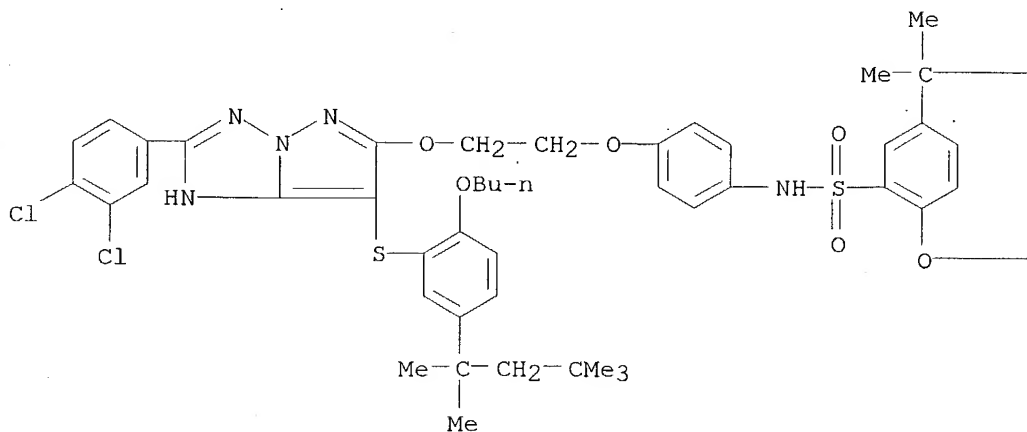
RL: TEM (Technical or engineered material use); USES (Uses)

(**photog. magenta coupler**)

RN 126512-93-4 HCA

CN Benzenesulfonamide, N-[4-[2-[[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(3,4-dichlorophenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]oxy]ethoxy]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

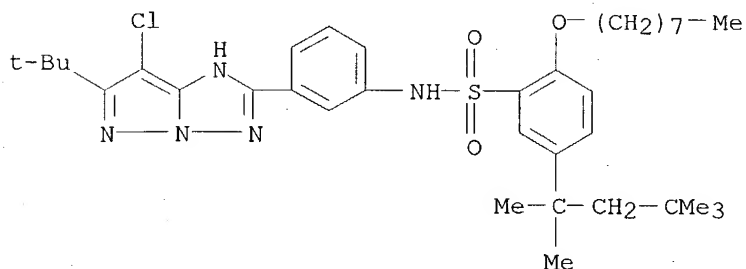


PAGE 1-B.

—CH₂—CMe₃—(CH₂)₇—Me

RN 143151-76-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI). (CA INDEX NAME)

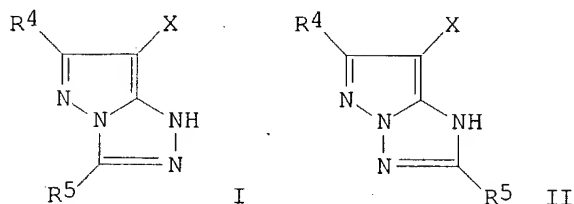


L24 ANSWER 34 OF 38 HCA COPYRIGHT 2004 ACS on STN

113:201197 Color **photographic** material. Kawagishi, Toshio; Nakajo,
Kiyoshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
01302249 A2 19891206 Heisei, 38 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1989-50244 19890302.

GI



AB In the title material, a Ag halide emulsion layer or its adjacent layer contains a **pyrazoloazole** magenta **coupler** of the formula A(CR¹R²R³)_n [A = a **pyrazoloazole** magenta **coupler** moiety; R¹ = alkyl; R², R³ = H, substituent; R² and R³ can be H at the same time; n = 1-3] excluding the following **couplers** I and II [X = halogen; R⁴ = alkyl; R⁵ = alkyl; ≥1 of R⁴ and R⁵ = CR¹R²R³; R¹ = alkyl; R², R³ = H, substituent; ≥1 of R² and R³ = substituent; and a polymer **coupler** is excluding from the 1st magenta **coupler**].

IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **pyrazoloazole** magenta **coupler** color **photog**

IT **Photographic couplers**

(magenta, **pyrazoloazole** derivative as)

IT 104433-84-3 104660-32-4 **128726-19-2**

RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)

IT 104446-29-9P **128747-53-5P**

RL: PREP (Preparation)

(preparation of, as **photog.** magenta **coupler**)

IT 29509-06-6 56367-24-9 82560-12-1 104433-86-5 104433-87-6
109871-07-0 116313-68-9 128726-22-7 128726-23-8 128726-24-9
128726-25-0 128726-26-1 128747-53-5

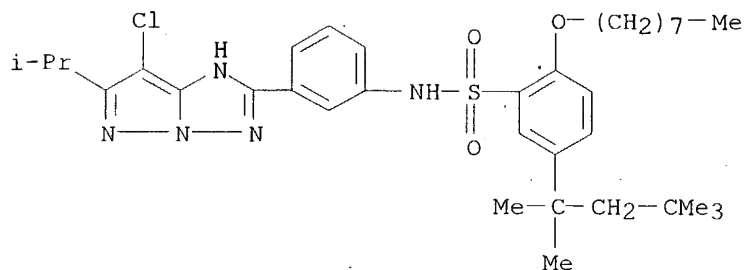
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, **pyrazoloazole** magenta **photog.**
coupler from)

IT **128726-19-2**

RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)

RN 128726-19-2 HCA

CN Benzenesulfonamide, N-[3-[7-chloro-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



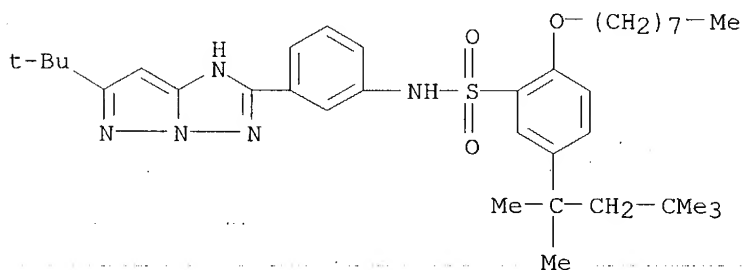
IT 128747-53-5P

RL: PREP (Preparation)

(preparation of, as photog. magenta coupler)

RN 128747-53-5 HCA

CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
(9CI) (CA INDEX NAME)



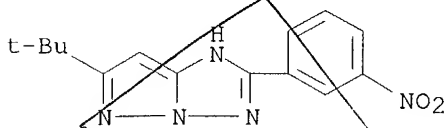
IT 128726-25-0 128726-26-1 128747-53-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, pyrazoloazole magenta photog. coupler from)

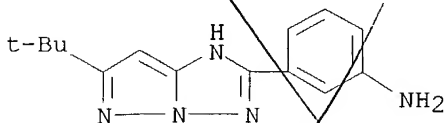
RN 128726-25-0 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-(3-nitrophenyl)-
(9CI) (CA INDEX NAME)

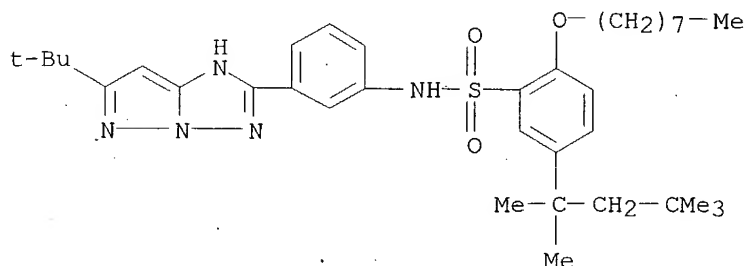


RN 128726-26-1 HCA

CN Benzenamine, 3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]-
(9CI) (CA INDEX NAME)

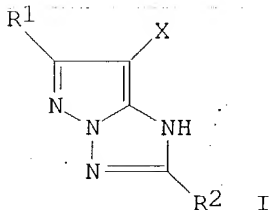


RN 128747-53-5 HCA
 CN Benzenesulfonamide, N-[3-[6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-
 (9CI) (CA INDEX NAME)



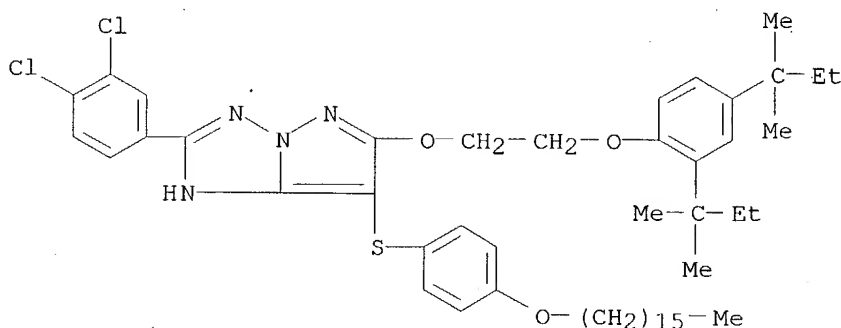
L24 ANSWER 35 OF 38 HCA COPYRIGHT 2004 ACS on STN
 112:188881 Silver halide color **photographic** material containing
 bleach accelerator and **pyrazolotriazole magenta coupler**
 . Kawagishi, Toshio; Sakagami, Megumi (Fuji Photo Film Co., Ltd., Japan).
 Jpn. Kokai Tokkyo Koho JP 01201658 A2 **19890814** Heisei, 48 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-25806 19880208.

GI



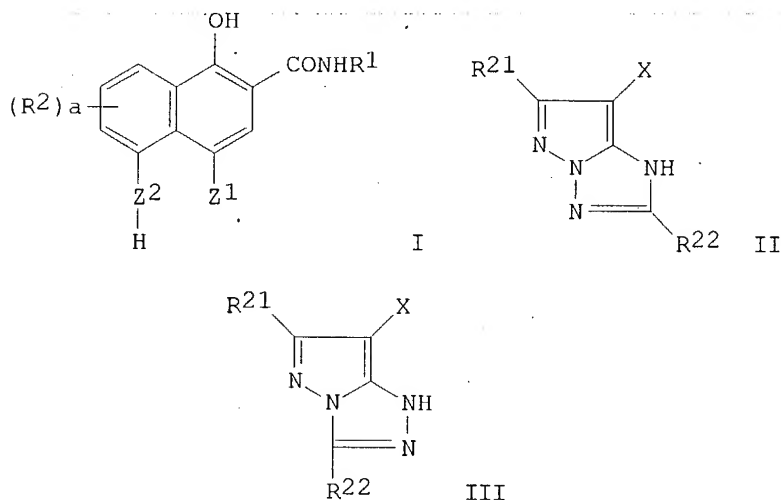
AB The title color **photog.** material contains a bleach accelerator
 and 1H-pyrazolo[1,5-b]-1,2,4-**triazole** magenta **coupler**
 I [R1 = alkyl, alkoxy, aryloxy; R1 = alkyl; R2 = secondary alkyl, tertiary
 alkyl, aryl, heterocyclyl; when R1 = alkoxy or aryloxy, R2 = alkyl, aryl,
 or heterocyclyl; X = H, group to be released upon **coupling**
 reaction with an oxidized aromatic primary amine developer; a dimer may be
 formed with R1, R2 or X; X = bleach accelerator, or its precursor].
 Bleachability and magenta images can be improved.
 IC ICM G03C007-38
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 ST **pyrazotriazole** magenta **coupler**; bleach accelerator
 releasing compd **photog**
 IT **Photographic** processing
 (color, bleach accelerator releasing compound for)
 IT **Photographic** films
 (color, containing **pyrazolotriazole** magenta **coupler** and

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]ethoxy]-2-(3,4-dichlorophenyl)-7-[[4-(hexadecyloxy)phenyl]thio]- (9CI) (CA INDEX NAME)



L24 ANSWER 36 OF 38 HCA COPYRIGHT 2004 ACS on STN
 112:129031 Silver halide color **photographic** material containing cyan and magenta **couplers**. Kawagishi, Toshio; Sakagami, Megumi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01167753 A2 **19890703** Heisei, 32 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1987-325953 19871223.

GI



AB The title color **photog.** material contains ≥ 1 naphtholic **coupler** of the structure I [R1 = aliphatic; R2 = substituent; a = 0-3; Z1 = H, **coupling**-releasing group; Z2 = O, S, NR3; R3 = H, organic substituent; R2 and Z2, or Z1 and Z2 may form a ring; a polymer **coupler** may be formed with R1, R2, R3, Z2, or Z1; Z1 \neq a development inhibitor moiety], and ≥ 1 **pyrazolotriazole coupler** of the structure II or III [when R21 = alkyl, R22 = aryl]

or heterocycyl; when R21 = alkoxy, aryloxy or heterocyclyloxy, R22 = alkyl, aryl, or heterocycyl; X = H, a **coupling** releasing group; a polymer **coupler** may be formed with R21, R22, or X; X \neq a development inhibitor moiety]. I is used as a cyan **coupler**, and II or III used as a magenta **coupler**. Color reproducibility, sensitivity, and gradation can be improved.

IC ICM G03C007-34

ICS G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST cyan naphthol **coupler**; magenta **pyrazoloazole** **coupler**; **coupler** color **photog** material

IT **Photographic couplers**

(cyan, naphtholic derivs. as, for improved image quality)

IT **Photographic couplers**

(magenta, **pyrazolotriazole** derivs. as, for improved image quality)

IT 110928-56-8 112232-34-5 115625-86-0 115825-96-2 125630-03-7

RL: TEM (Technical or engineered material use); USES (Uses)

(**photog.** cyan **coupler**, color material containing **pyrazolotriazole**-type magenta **coupler** and, for improved image quality)

IT 120886-16-0 125630-04-8 125630-05-9 125630-06-0

125630-07-1 125646-37-9 125646-38-0

RL: TEM (Technical or engineered material use); USES (Uses)

(**photog.** magenta **coupler**, color material containing naphtholic cyan **coupler** and, for improved image quality)

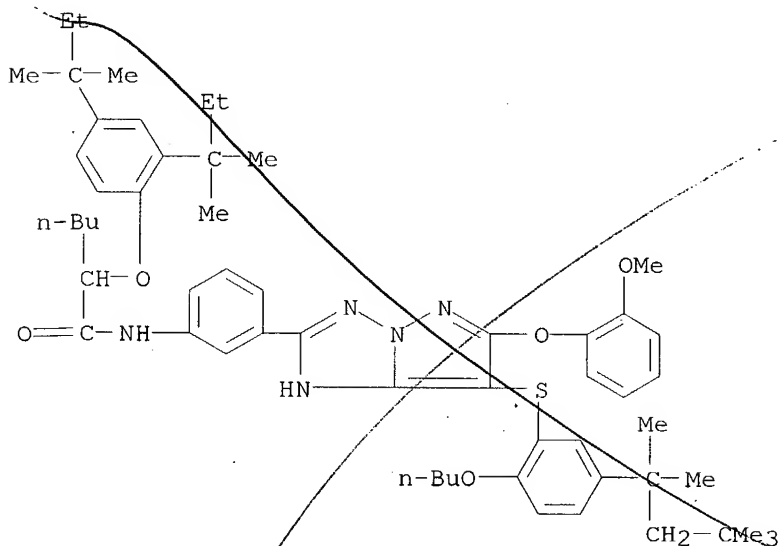
IT 125630-06-0 125646-37-9

RL: TEM (Technical or engineered material use); USES (Uses)

(**photog.** magenta **coupler**, color material containing naphtholic cyan **coupler** and, for improved image quality)

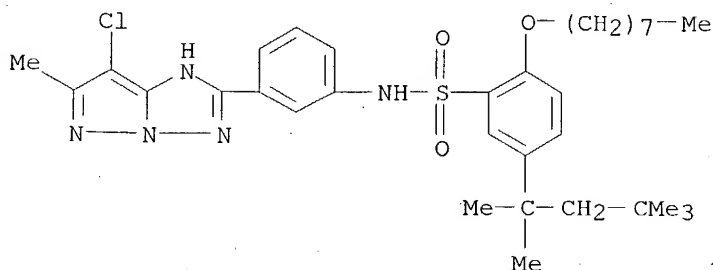
RN 125630-06-0 HCA

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-methoxyphenoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 125646-37-9 HCA

CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)



- L24 ANSWER 37 OF 38 HCA COPYRIGHT 2004 ACS on STN
- 110:31337 Silver halide color **photographic** materials containing magenta **couplers**. Kida, Shuji; Nakagawa, Satoshi (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 63153547 A2 **19880625** Showa, 15 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-300517 19861217.
- GI For diagram(s), see printed CA Issue.
- AB 1H-Pyrazolo[1,5-b][1,2,4]**triazole** derivs. substituted at the 2-position by a group I (R1-3 = substituents; m = 0-3) are contained in Ag halide emulsion layers of the **photog.** materials, as magenta **couplers**. These **couplers** provide improved color reproduction and color formation. Thus, **photog.** paper was coated with green-sensitive Ag(Cl,Br) emulsion mixed with di-Bu phthalate-EtOAc emulsion of II (0.15 mol **coupler**/ mol Ag) and other additives. Exposed and processed paper showed high sensitivity, wide gradation, and maximum d. 3.03.
- IC ICM G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **photog** paper magenta color **coupler**
- IT **Photographic couplers**
(magenta, **pyrazolotriazole** derivs., **photog.** paper containing)
- IT 118188-86-6
RL: USES (Uses)
(condensation of, with **aminopyrazole** derivative, **photog** . magenta **coupler** from)
- IT 31230-17-8
RL: USES (Uses)
(condensation of, with imidobenzoic acid derivative, **photog.** magenta **coupler** from)
- IT 118188-71-9 118188-72-0 118188-73-1
118188-74-2 118188-75-3 118188-76-4
118188-77-5 118188-78-6 118188-79-7
118188-80-0 118188-81-1 118188-82-2
118188-83-3 118188-84-4 118222-61-0
118222-62-1
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**, **photog.** paper containing)
- IT 118242-42-5P
RL: TEM (Technical or engineered material use); PREP (Preparation); USES

(Uses)

(photog. magenta coupler, photog. paper containing, preparation of)

IT 118188-89-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of, photog. magenta coupler from)

IT 118188-87-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring closure of, photog. magenta coupler from)

IT 118188-88-8P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sulfonylation of, photog. magenta coupler from)

IT 118188-71-9 118188-72-0 118188-73-1

118188-74-2 118188-75-3 118188-76-4

118188-77-5 118188-78-6 118188-79-7

118188-80-0 118188-81-1 118188-82-2

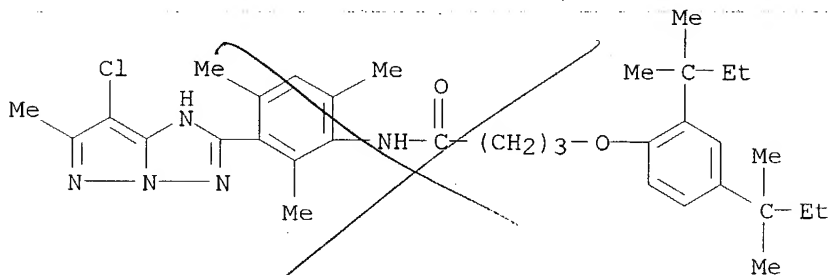
118188-83-3 118188-84-4 118222-61-0

118222-62-1

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. magenta coupler, photog. paper containing)

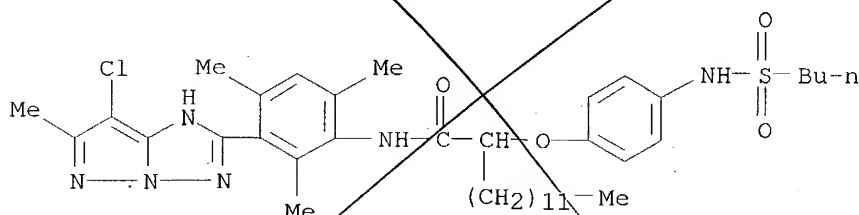
RN 118188-71-9 HCA

CN Butanamide, 4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]- (9CI) (CA INDEX NAME)



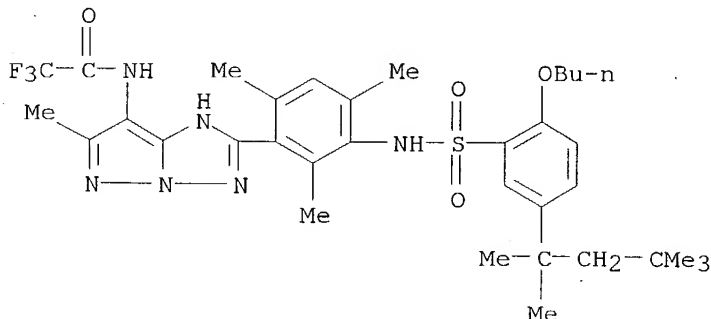
RN 118188-72-0 HCA

CN Tetradececanamide, 2-[4-[(butylsulfonyl)amino]phenoxy]-N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]- (9CI) (CA INDEX NAME)

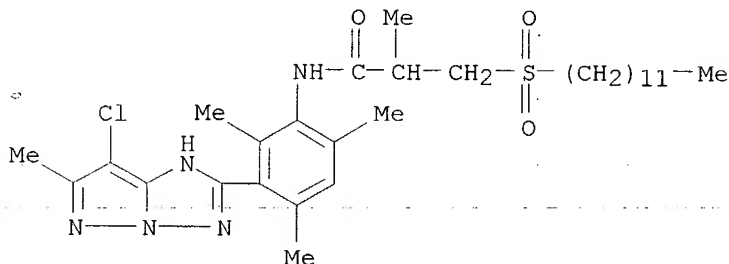


RN 118188-73-1 HCA

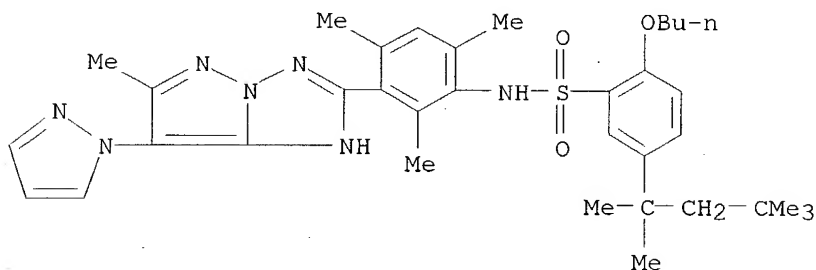
RN 118188-84-4 HCA
 CN Acetamide, N-[2-[3-[[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl
 amino]-2,4,6-trimethylphenyl]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-
 yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



RN 118222-61-0 HCA
 CN Propanamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-
 yl)-2,4,6-trimethylphenyl]-3-(dodecylsulfonyl)-2-methyl- (9CI) (CA INDEX
 NAME)

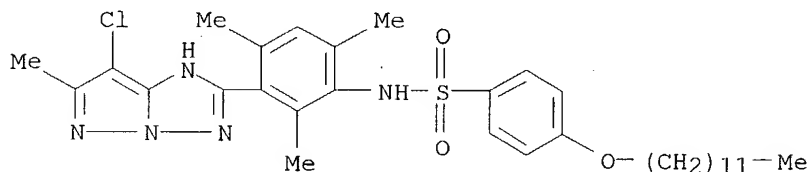


RN 118222-62-1 HCA
 CN Benzenesulfonamide, 2-butoxy-5-(1,1,3,3-tetramethylbutyl)-N-[2,4,6-
 trimethyl-3-[6-methyl-7-(1H-pyrazol-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-
 2-yl]phenyl]- (9CI) (CA INDEX NAME)



IT 118242-42-5P
 RL: TEM (Technical or engineered material use); PREP (Preparation); USES
 (Uses)
 (photog. magenta coupler, photog. paper
 containing, preparation of)
 RN 118242-42-5 HCA

CN Benzenesulfonamide, N-[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2,4,6-trimethylphenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)

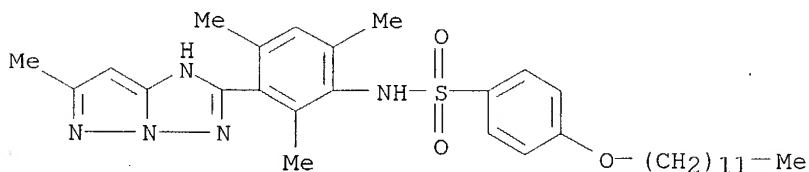


IT 118188-89-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and chlorination of, **photog. magenta coupler** from)

RN 118188-89-9 HCA

CN Benzenesulfonamide, 4-(dodecyloxy)-N-[2,4,6-trimethyl-3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)

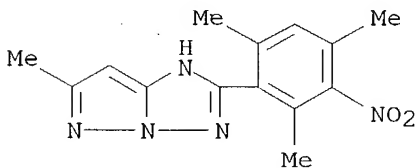


IT 118188-88-8P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and sulfonylation of, **photog. magenta coupler** from)

RN 118188-88-8 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-methyl-2-(2,4,6-trimethyl-3-nitrophenyl)- (9CI) (CA INDEX NAME)



L24 ANSWER 38 OF 38 HCA COPYRIGHT 2004 ACS on STN

109:119537 Color **photographic** imaging method using

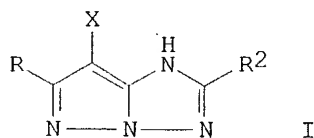
pyrazolotriazole-type magenta **couplers**. Sato, Tadahisa;

Sakai, Nobuo; Kamio, Takayoshi (Fuji Photo Film Co., Ltd., Japan). Jpn.

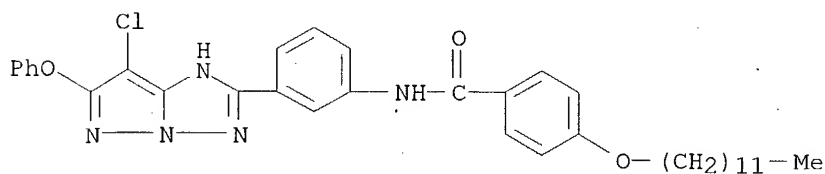
Kokai Tokkyo Koho JP 63041851 A2 19880223 Showa, 27 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-184331 19860807.

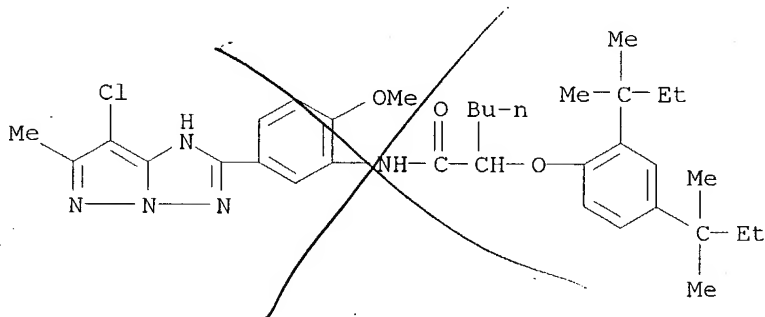
GI



- AB Silver halide **photog.** materials are color-developed with an aromatic primary amine-containing developer solution in the presence of a **pyrazolotriazole** type magenta **coupler** I (R1 = organic moiety having C, O, N, or S bonded to the **pyrazolotriazole** ring; R2 = aryl, heterocyclyl; X = H, substituent released during **coupling** reaction). The use of the above magenta **coupler** gives dye images with high optical d. and high γ -value.
- IC ICM G03C007-30
ICS G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST color **photog** magenta dye image; **coupler photog** magenta **pyrazolotriazole**
- IT **Photographic couplers**
(magenta, **pyrazolotriazole** derivs. as)
- IT 67-56-1, Methanol, uses and miscellaneous 31230-17-8 116313-64-5
116313-65-6 116313-66-7
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- IT 116313-68-9P 116313-69-0P 116313-70-3P 116313-71-4P
116313-72-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of **photog.** magenta **coupler**)
- IT 116313-59-8P 116313-60-1P 116313-61-2P
116313-62-3P 116313-63-4P
RL: PREP (Preparation)
(preparation of, as **photog.** magenta **coupler**)
- IT 116313-64-5 116313-65-6 116313-66-7
RL: TEM (Technical or engineered material use); USES (Uses)
(**photog.** magenta **coupler**)
- RN 116313-64-5 HCA
- CN Benzamide, N-[3-(7-chloro-6-phenoxy-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]-4-(dodecyloxy)- (9CI) (CA INDEX NAME)

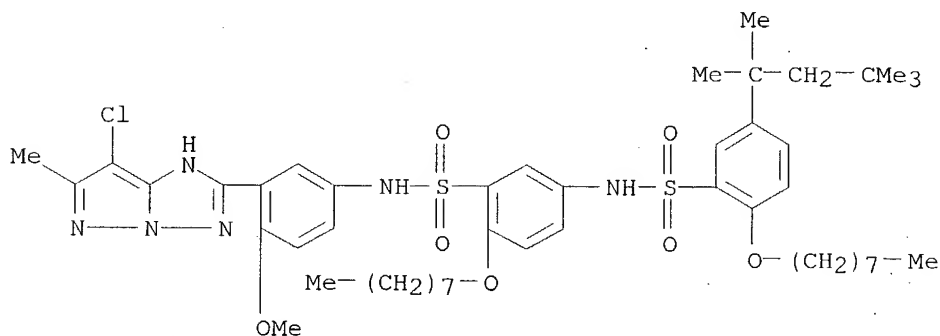


- RN 116313-65-6 HCA
- CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methoxyphenyl]- (9CI) (CA INDEX NAME)



RN 116313-66-7 HCA

CN Benzenesulfonamide, N-[3-[[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-4-methoxyphenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



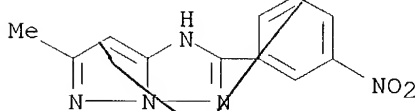
IT 116313-70-3P 116313-71-4P 116313-72-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of **photog. magenta coupler**)

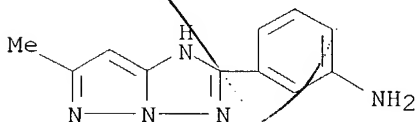
RN 116313-70-3 HCA

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-methyl-2-(3-nitrophenyl)- (9CI) (CA INDEX NAME)

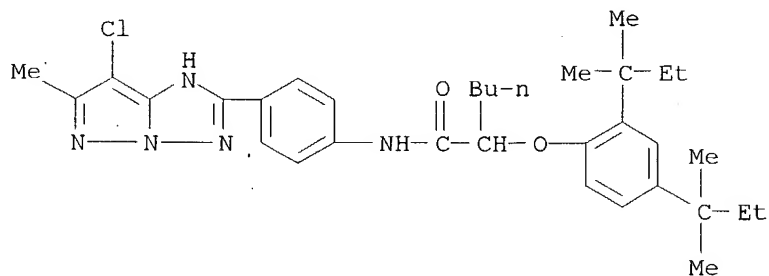


RN 116313-71-4 HCA

CN Benzenamine, 3-(6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)- (9CI) (CA INDEX NAME)

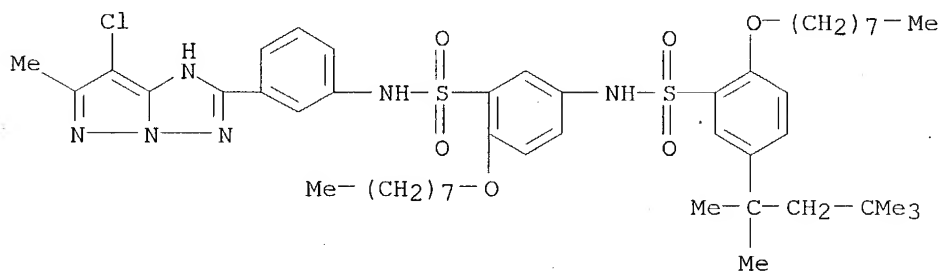


1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



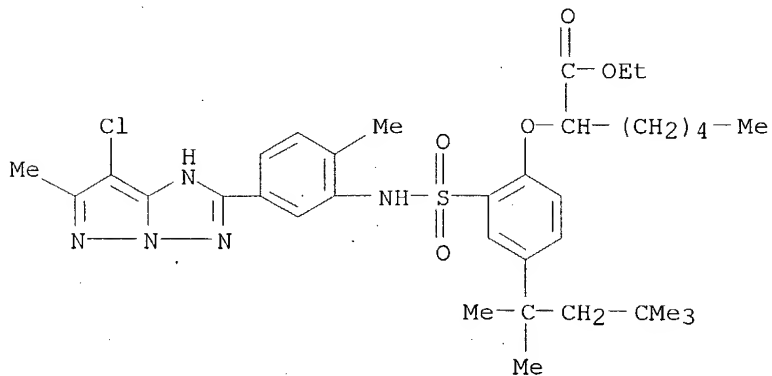
RN 116313-62-3 HCA

CN Benzenesulfonamide, N-[3-[[[3-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 116313-63-4 HCA

CN Heptanoic acid, 2-[2-[[[5-(7-chloro-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)-2-methylphenyl]amino]sulfonyl]-4-(1,1,3,3-tetramethylbutyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



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